



Water Meter and Telemetry Module Compatibility Matrix

Water Meter and Telemetry Module Compatibility Matrix

May 29, 2024

815-0820-00

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New in this document

Revision	Date	Description
REV 005	May 28, 2024	Added note 31 to Notes .
REV 004	February 12, 2024	Added information about NEXT meter encoders in NEXT Meter Encoders.
REV 003	January 17, 2023	Added 500W Pit and Remote Module rows to Diehl Meter Encoders .
REV 002	December 6, 2021	Removed “(Performance)” from the section previously titled “Zenner (Performance) Encoders”.
REV 001	December 2, 2021	Added Cadillac Meter Pulsers , Diehl Meter Encoders , and Elster AMCO (ABB) Encoders after they were mistakenly removed from the document. Updated references to Itron Access to Customer Center.
REV 000	August 6, 2021	Added NDC row to first table in Zenner (Performance) Encoders . This document was previously tracked under part number PUB-0063-002 Revision Z24, November 2020). It is now tracked under part number 815-0820-00.

Water meter and telemetry module compatibility tables

This document describes compatibility between water meters and Itron products.

Badger Encoders

Table 1 Badger Encoder model information

Register model	Meter model	Hardware revision	Firmware revision	Size from	Size to	Meter type	Compatible Encoder ERTs by group
ADE4	Any meter that accepts ADE registers			All	All	All	A, E, F, G, H, I
ADE 6 dial	E-Series			All	All	UltraSonic	A, E, F, G, H, I
ADE 9 dial	E-Series			All	All	UltraSonic	F, H, I
HR E LCD16	Any meter that accepts HR E registers		12	All	All	All	A, E, F, G, H, I
HR E Mechanical 8 dial	Any meter that accepts HR E registers			All	All	All	F, H, I
HR E Mechanical 6 dial	Any meter that accepts HR E registers			All	All	All	A, E, F, G, H, I
ADE	M500022 Mag Meter			All	All	All	A, E, F, G, H, I

Table 2 Compatible Badger Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205

	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Badger Pulsers

Table 3 Badger Pulser model information

Register model	Meter model	Hardware revision	Firmware revision	Size from	Size to	Meter type	Compatible Pulser ERTs by group
RTR 9 dial ^{28,29}	E-Series			All	All	Ultra Sonic	J, K, L, M, N, O
RTR, Dual RTR	Any meters that accept RTR, Dual RTR or these			All	All	All	J, K, L, M, N, O

Register model	Meter model	Hardware revision	Firmware revision	Size from	Size to	Meter type	Compatible Pulser ERTs by group
	registers used with Summator/Splitter or Badger's Submersible Connector						
RTR	M500022 Mag Meter			All	All	All	J, K, L, M, N, O

Table 4 Compatible Badger Pulser ERT information

J	60WP Pulser, Inline Connector	ERW-0771-301
	60WP Pulser, 5' Cable	ERW-0771-311
	60WP-R Pulser, Remote	ERW-0771-423
K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419

	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
M	100WP-R Pulser remote, 10" cable	ERW-1300-215
	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
N	100WP-R+ Pulser remote, 10" cable	ERW-1300-315
	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
O	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Cadillac Meter Pulsers

Table 5 Cadillac Meter Pulsers model information

Register model	Meter model	Hardware revision	Firmware revision	Size from	Size to	Meter type	Compatible Encoder ERTs by group
Digital Output 1 and Digital Output 225	CMAG/EMAG			All	All	Magnetic Flow Meter	J, K, L

Table 6 Compatible Encoder ERT information

J	60WP Pulser, Inline Connector	ERW-0771-301
	60WP Pulser, 5' Cable	ERW-0771-311
	60WP-R Pulser, Remote	ERW-0771-423
K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220

L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419
	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420

Diehl Meter Encoders

Table 7 Diehl Meter Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size from	Size to	Meter type	Compatible Encoder ERTs by group
	Hydrus ²³	Encoder Board Layout 10220	2.2.6	All	All		A, E, F, G, H, I

Table 8 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218

F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

NEXT Meter Encoders

Table 9 NEXT Meter Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size from	Size to	Meter type	Compatible Encoder ERTs by group
	NR4	2.1	5.1	All	All		F, H, I

Table 10 Compatible Encoder ERT information

F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405

	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
H ³⁰	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Elster AMCO (ABB) Encoders

Table 11 Elster AMCO (ABB) Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size from	Size to	Meter type	Compatible Encoder ERTs by group
AquaMaster	AquaMaster			All	All	Magnetic Flowmeter	D
AquaMaster III	AquaMaster III26	FET2211A0Y 5G5S1ADM5	VKK WAJC2103 01.01.00	All	All		D, E, F, G, H, I
	evoQ4 Mag			All	All	Electro Magnetic	D, E, G
	evoQ4 Sensus23	V6 and V8	V08	All	All		A, E, F, G, H, I
AquaMaster IV	AquaMaster IV		v01.01.16.BX2	All	All	Electromagnetic Flowmeter	F, H, I
InVision13 or Scancoder	Any meters that accept InVision or Scancoder registers			All	All	All	D, E, F, G, H, I
Q200	Q200	MC1042	ME1024	All	All	Electro Magnetic	A, E, F, G, H, I
	SM700			All	All	Fluidic	A, E, F, G, H, I

Table 12 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
D	60W Encoder, Inline Connector	ERW-0771-206
	60W Encoder, 5' Cable	ERW-0771-216
	60W-R Encoder, Remote	ERW-0771-426
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
	100W-R+ Encoder remote, 10" cable	ERW-1300-313

H	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	OpenWay Riva Water Pit Module	ERW-1601- 001
	OpenWay Riva Water Remote Module	ERW-1601- 002

Elster AMCO (ABB) Pulsers

Table 13 Elster AMCO (ABB) Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size from	Size to	Meter type	Compatible Encoder ERTs by group
Digital ^{2, 27}	C3000 and C4000			All	All	Compound	J, K, L, M, N, O
Digital ^{2, 27}	C700 ¹			All	All	Positive Displacement	J, K, L, M, N, O
Digital ^{2, 27}	T3000 and T4000			All	All	Turbine	J, K, L, M, N, O
	V100T10 (PSMT)			All	All	Positive Displacement	J, K, L, M, N, O

Table 14 Compatible Encoder ERT information

J	60WP Pulser, Inline Connector	ERW-0771-301
	60WP Pulser, 5' Cable	ERW-0771-311
	60WP-R Pulser, Remote	ERW-0771-423
K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308
		ERW-1300-408

	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419
	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
M	100WP-R Pulser remote, 10" cable	ERW-1300-215
	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
N	100WP-R+ Pulser remote, 10" cable	ERW-1300-315
	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
O	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

ITRON (Actaris) Encoders

Table 15 Elster AMCO (ABB) Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
Cyble Coder ¹²	Flostar			All	All	Single Jet	A, E, F, G, H, I
Cyble Coder ¹²	Woltex			All	All	Turbine	A, E, F, G, H, I
Cyble Coder ¹²	Multimag			All	All	Mult Jet	A, E, F, G, H, I

Table 16 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202

E	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

ITRON (Actaris) Pulsers

Table 17 ITRON (Actaris) Pulsers meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
Cyble Sensor ¹¹	Flostar			All	All	Single Jet	J, K, L, M, N, O
Cyble Sensor ¹¹	Multimag			All	All	Multi Jet	J, K, L, M, N, O
Cyble Sensor ¹¹	Woltex			All	All	Turbine	J, K, M

Table 18 Compatible Encoder ERT information

J	60WP Pulser, Inline Connector	ERW-0771-301
	60WP Pulser, 5' Cable	ERW-0771-311
	60WP-R Pulser, Remote	ERW-0771-423
K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419

	100WP+ Pulsar, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
M	100WP-R Pulsar remote, 10" cable	ERW-1300-215
	100WP-R Pulsar remote, 10" cables for register and telemetry device	ERW-1300-216
N	100WP-R+ Pulsar remote, 10" cable	ERW-1300-315
	100WP-R+ Pulsar remote, 10" cables for register and telemetry device	ERW-1300-316
O	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Krohne Pulsers

Table 19 Krohne Pulsers meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
IFC 070 ¹⁹	Waterflux			All	All	Magnetic Flow Meter	K, L, M, N, O

Table 20 Compatible Encoder ERT information

K	100WP Pulsar, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulsar, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulsar, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulsar, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulsar, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulsar, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulsar, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulsar, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409

	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419
	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
M	100WP-R Pulser remote, 10" cable	ERW-1300-215
	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
N	100WP-R+ Pulser remote, 10" cable	ERW-1300-315
	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
O	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Kamstrup Encoders

Table 21 Kamstrup Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size from	Size to	Meter type	Compatible Encoder ERTs by group
	flowIQ2100			All	All	Ultrasonic	A, F, H, I

Table 22 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405

	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

MasterMeter Encoders

Table 23 MasterMeter Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
AccuLinx18	Any meter that accepts AccuLinx registers			All	All	All	F, H, I
eLinx	Any meter that accepts eLinx registers			All	All	All	A, E, F, G, H, I
Octave23	Any meter that accepts Octave registers	4.0C	1.21S	All	All	All	A, E, F, G, H, I

Table 24 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203

	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

McCrometer Encoders

Table 25 McCrometer Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
M-Series Converter ²³	880003051	MCMAG1REV1	3.03.00	All	All		A, E, F, G, H, I

Table 26 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Metron Farnier Encoders

Table 27 Metron Farnier Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
OER ⁴	Any meters that accept the OER register			All	All	Single Jet	A, E, F, G, H, I

Table 28 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417

	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Mueller (Hersey) Encoders

Table 29 Mueller (Hersey) Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
Translator	Any meters that accept the Translator register			All	All	All	A, E, F, G, H, I
SSR	Any meters that accept the SSR register		3.0.12	All	All	All	A, E, F, G, H, I

Table 30 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217

	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Neptune (Schlumberger) Encoders

Table 31 Neptune (Schlumberger) Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
ARB V	Any meters that accept the ARB V register			All	All	All	B, E, G
E-Coder15	Any meters that accept the E-Coder register			All	All	All	C, E, F, G, H, I
ProRead8 or ProRead AutoDetct9	Any meters that accept the ProRead,			All	All	All	C, E, F, G, H, I

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
	ProRead Auto Detect register						
ProCoder16	Any meters that accept the ProCoder register			All	All	All	F,H,I
	Mach1016			All	All	All	F,H,I

Table 32 Compatible Encoder ERT information

B	60W Encoder, Inline Connector	ERW-0771-204
	60W Encoder, 5' Cable	ERW-0771-214
	60W-R Encoder, Remote	ERW-0771-424
C	60W Encoder, Inline Connector	ERW-0771-205
	60W Encoder, 5' Cable	ERW-0771-215
	60W-R Encoder, Remote	ERW-0771-425
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405

	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

RG3 Encoders

Table 33 RG3 Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
Tomahawk ²⁰	RG3			All	All	All	A, E, F, G, H, I

Table 34 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217

	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

RG3 Pulsers

Table 35 RG3 Pulsers meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
Tomahawk ²⁰	RG3			All	All	All	J, K, L, M, N, O

Table 36 Compatible Encoder ERT information

J	60WP Pulser, Inline Connector	ERW-0771-301
	60WP Pulser, 5' Cable	ERW-0771-311
	60WP-R Pulser, Remote	ERW-0771-423

K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419
	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
M	100WP-R Pulser remote, 10" cable	ERW-1300-215
	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
N	100WP-R+ Pulser remote, 10" cable	ERW-1300-315
	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
O	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Sensus (Invensys, Rockwell) Encoders

Table 37 Sensus (Invensys, Rockwell) Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
ER21	Any meters that accept the ER registers		R1.0.04	All	All	All	A, E, F, G, H, I
ICE7 and ECR7	Any meters that accept the ICE and ECR V registers			All	All	All	A, E, F, G, H, I
iPERL	iPERL			All	All	Electro Magnetic	E, F, G, H, I
OMNI	OMNI T2		1.19	1-1/2"	10"	Turbine	A, E, F, G, H, I

Table 38 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305

		ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Sensus (Invensys, Rockwell) Pulsers

Table 39 Sensus (Invensys, Rockwell) Pulsers meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
PMM ^{5, 6, 27}	PMM			All	All	Multi Jet	J, K, L, M, N, O

Table 40 Compatible Encoder ERT information

J	60WP Pulsar, Inline Connector	ERW-0771-301
	60WP Pulsar, 5' Cable	ERW-0771-311
	60WP-R Pulsar, Remote	ERW-0771-423
K	100WP Pulsar, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulsar, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulsar, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulsar, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212

	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419
	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
M	100WP-R Pulser remote, 10" cable	ERW-1300-215
	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
N	100WP-R+ Pulser remote, 10" cable	ERW-1300-315
	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
O	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Siemens Encoders

Table 41 Siemens Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
	Mag8000CT-7ME6820 ¹⁷ Mag8000-7ME6810 ¹⁷			All	All	All	E, F, G, H, I

Table 42 Compatible Encoder ERT information

E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Zenner Encoders

Table 43 Zenner Encoders meter information

Register model	Meter model	Hardware revision	Firmware revision	Size From	Size to	Meter type	Compatible Encoder ERTs by group
ETR	Hendey			All	All	All	A, E, F, G, H
NDC	Any compatible with Zenner's NDC Module			All	All	All	F, H, I

Table 44 Compatible Encoder ERT information

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317

		ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W Pit Module	ERW-1601-001
	500W Remote Module	ERW-1601-002

Notes

Compatibility acceptance for the meters and meter registers listed in this document was based on Itron's evaluation of communication integrity and electrical interface over various operating temperatures with specified register hardware and firmware revisions. Meter/register features, accuracy, and reliability were not evaluated.

1. Itron ERT is not compatible with 1-½ inch and 2-inch imperial gallons, US gallons *high speed* and cubic feet *high speed* C700 meters with digital registers.
2. Compatible with Elster AMCO digital registers with tamper reed switch.
3. Badger supplies the cable with RTR for remote.
4. Operational Temperature is limited to -10° C to +60° C (14° F to 140° F).
5. For ECR III AMR SYSTEM register on PMM meter, refer to ERT part numbers under Invensys/Sensus.
6. Compatible with Precision PMM registers with four mounting holes that accept Precision's blue housing reed switch assembly with four mounting screws.
7. Compatible with all ECR variants and configurations excluding eight-wheel. Register must be programmed as normal or classic reading string and multiplier. Units of measurement must be disabled.
8. Neptune's ProRead register must be programmed with Neptune ProRead Portable Programmer in the following way:

RF/MIU ID SINGLE

DC: E65N or E49N UC: X

ID: X 00

Where X is noted in the example, whatever value is programmed is irrelevant to the ERT since this information is not captured in the ERT module's Standard Consumption Message. DC signifies *Dial Code*. Itron suggests model E65N registers be programmed with this value (for example, six encoded wheels with the resolution of last encoded wheel being zero or five). Itron suggests E49N registers be programmed with this value (for example, four encoded wheels with the resolution of last encoded wheel being zero through nine).

9. Use the same ERT module as ProRead. The ProRead AutoDetect register does not require programming to work with the ERT unless it is connected to an R900 radio module. If the register has been connected to an R900 radio module, reprogram the register to the configuration listed in note 8 before connecting the ERT module.
10. The V100T is the only approved model of the V100 meter family and is only authorized when using the Elster AMCO meter probe from the following table.

Table 45 Approved V100 meter model approved for use with the Elster AMCO meter probe

Elster AMCO order number	Probe part number	Description
2545Q0001	59600-445-5	5' cable, no connector
2545Q0002	59600-445-ILC	5' cable with inline connector
2545Q0003	59600-635	8" cable used for direct mount
2545Q2452	59600-445-25	25' cable, no connector

Table 46 V100T meter configurations approved for use

Size	Units	Maximum flow	Pulse value
15mm	m ³	3 cmh	5 liters
	Imp. Gallons	11 gpm	0.5 gallons
	Imp. Gallons	11 gpm	
	US Gallons	13.2 gpm	
	ft ³	1.77 cfm	0.5 cu.ft.
20mm	m ³	5 cmh	5 liters
	Imp. Gallons	18.3 gpm	5 gallons
	US Gallons	22 gpm	
	ft ³	2.94 cfm	0.5 cu.ft.
25mm	m ³	7 cmh	5 liters
	Imp. Gallons	25.7 gpm	5 gallons
	US Gallons	30.8 gpm	
	ft ³	4.12 cfm	0.5 cu.ft.
30mm	m ³	12 cmh	50 liters
	Imp. Gallons	44 gpm	5 gallons
	US Gallons	52.8 gpm	
	ft ³	7.06 cfm	0.5 cu.ft.
40mm	Imp. Gallons	73.3 gpm	5 gallons
	US Gallons	88 gpm	
	ft ³	11.77 cfm	0.5 cu.ft.

11. The Cyble Sensor pulser module must be configured with a K factor of 10; therefore, the least significant consumption value is not reported in the ERT Standard Consumption Message (SCM).
12. The Cyble Coder must be programmed for seven digits. This prevents the rightmost or leftmost register wheel value from being reported in the ERT Standard Consumption Message (SCM). Ensure the Coder consumption value is programmed to match the meter register value before connecting to the ERT module.
13. Only applies to registers with Elster AMCO protocol.

14. Register housing must be of the three-tab design.

15. E-Coder compatibility is limited to the parameters shown in the following table:

Table 47 E-Coder parameters

ERT Module	E-Coder compatibility
60W	Can report only up to six left-justified digits.
100W	Factory default setting reports up to six left-justified digits. 100W modules manufactured after 04/2012 are compatible with eight-digit register output when reprogrammed for Fixed Network mode and Neptune eight-dial configuration.
100W+ and 500W	Factory default setting reports up to six left-justified digits. To read eight-dial register, reprogram using Neptune eight-dial configuration. Note: Will not read a six-dial register after it is reprogrammed to read eight-dials. To re-enable six-dial operation, program using Encoded Register option.

16. ProCoder and Mach10 compatibility is limited to the parameters shown in the following table:

Table 48 ProCoder and Mach10 parameters

ERT Module	E-Coder compatibility
100W+ and 500W	Factory default setting reports up to six left-justified digits. To read an eight-dial register, reprogram using Neptune eight-dial configuration.

17. HR-E LCD compatibility is dependent on the register firmware revision. See the following HR-E LCD compatibility list:

Table 49 HR-E LCD compatibility list

HR-E-LCD	Compatible ERT Model
Six-digit output (before September 2015)	60W, 100W, 100W+, 200WP, OpenWay Riva modules
Six-digit output (after September 2015, firmware version 12)	60W, 200WP
Nine-digit output	100W+, OpenWay Riva modules

18. The Siemens Mag800CT-7MEG870 and Mag8000-7ME6810 are Itron-qualified for battery and AC power operation.

19. Register must have a visible date code showing manufacturing date of September 2013 (09.13) or later.

20. The Krohne IFC 070 must be programmed to 100ms output. All approved ERT modules must be programmed with the Krohne FDM configuration.

- 21. The RG3 Tomahawk register is programmable for encoder or pulser. Select encoder configurations based on the model of the connected endpoint. For pulser operation, FDM Endpoint Tools version 3.6 or later is required to configure the endpoint. Only the left-most seven dials are reported and the endpoint consumption value increments by one for every ten meter pulses.
- 22. Only registers with a manufacturing date of June 2013 or later are approved.
- 23. The Badger M5000 Mag Meter is approved for the number of reported digits in [Table 50](#).

Note: Pulsar ERTs must be programmed to Badger M5000 7-digit or 100ms Pulse seven-digit driver.

Table 50 Badger M5000 Number of Reported Digits (for listed Itron Module)

Module	Number of reported digits
60W	6
60WP, 100W, 100WP	7
100W+	9
100WP+	7

- 24. Register is approved for use in the configurations listed in [Table 51](#).

Table 51 Register configuration

ERT Module	ERT Module
60W	60W
100W	100W
100W+	100W+

- 25. 100W/100W+ Series and 60 Series modules are FCC and Measurement Canada approved.
- 26. The Cadillac Meter is approved for use in the configurations described in [Table 52](#).

Table 52 Itron Configurations: Cadillac Meter (Flow Units: Gal/Min and Gallons) for 60WP and 100WP/+

Size	B: Display		C: Range	H: DO	J: Count/Pulse		
	Display 1	Display 2	R1	DO1 function	Count rate	Pulse mode	Pulse width
0.5" thru 6"	gal/min	Count F	5 m/s	PLS Out	10 gal	Auto	100 ms
8" thru 24"	gal/min	Count F	5 m/s	PLS Out	100 gal	Auto	100 ms
28" thru 36"	gal/min	Count F	5 m/s	PLS Out	1000 gal	Auto	100 ms

Table 53 Itron Configurations: Cadillac Meter (Flow Units: Ft3/Min and Ft3) for 60WP and 100WP/+

Size	B: Display		C: Range	H: DO	J: Count/pulse		
	Display 1	Display 2	R1	DO1 function	Count rate	Pulse mode	Pulse width
0.5" thru 20"	gal/min	Count F	5 m/s	PLS Out	10 Ft3	Auto	100 ms
24" thru 36"	gal/min	Count F	5 m/s	PLS Out	100 Ft3	Auto	100 ms

- R1, which is meter flow span setting, is determined by using approximately five m/s as maximum system design velocity.
- When Pulse Mode is set to Auto, the default for Pulse Width becomes 100 ms.
- Count Rate (Pulse scaling factor) can always be larger than what is listed for any given meter size. It cannot be smaller and must meet 100 ms pulse width.
- Pulsers ERTs must be programmed to 100ms Pulse seven-digit driver.

27. AquaMaster III Programming Command Settings (six left-most digits sent).

Go to **Menu > 5.0 Flow Settings > Set flow to appropriate units.**

Table 54 Parameters adjusted by 60W and 100W

Size	Meter units	Meter multiplier	Output type	Message type	Digits sent	Display label
US gallons						
1/2" to 1"	> 37 = 5	> 38 = 1	> 324 = 1	> 326 = 0	> 327 = 3	N/A
1 1/2" to 3"	> 37 = 0 Special	> 38 = 26.4172	> 324 = 1	> 326 = 0	> 327 = 3	x 10 US Gal
4" to 14"	> 37 = 0 Special	> 38 = 2.64173	> 324 = 1	> 326 = 0	> 327 = 3	x 100 US Gal
16" to 24"	> 37 = 0 Special	> 38 = .264174	> 324 = 1	> 326 = 0	> 327 = 3	x 1000 US Gal
1/2" to 1"	> 37 = 5	> 38 = 1	> 324 = 1	> 326 = 0	> 327 = 3	N/A
1 1/2" to 3"	> 37 = 0 Special	> 38 = 26.4172	> 324 = 1	> 326 = 0	> 327 = 3	x 10 US Gal
4" to 14"	> 37 = 0 Special	> 38 = 2.64173	> 324 = 1	> 326 = 0	> 327 = 3	x 100 US Gal
16" to 24"	> 37 = 0 Special	> 38 = .264174	> 324 = 1	> 326 = 0	> 327 = 3	x 1000 US Gal
Cubic feet						
1/2" to 3"	> 37 = 4	> 38 = 1	> 324 = 1	> 326 = 0	> 327 = 3	N/A
4" to 10"	> 37 = 0 Special	> 38 = 353.147	> 324 = 1	> 326 = 0	> 327 = 3	x 10 FT ³
12" to 24"	> 37 = 0 Special	> 38 = 35.3147	> 324 = 1	> 326 = 0	> 327 = 3	x 100 FT ³
Cubic meters						
1/2" to 20"	> 37 = 2	> 38 = 1	> 324 = 1	> 326 = 0	> 327 = 3	N/A
24"	> 37 = 0 Special	> 38 = 10	> 324 = 1	> 326 = 0	> 327 = 3	x 10 M ³

28. A check valve is needed with Badger RTR E-Series, Elster Digital, Sensus PMM, and RG3 Tomahawk registers for all Water Pulser endpoints to prevent Reverse Flow from causing an ERT/Meter display mismatch.

29. For proper endpoint operation, program endpoints using the Badger E-Series RTR configuration in FDM Tools.

Note: This meter only reports the seven left-most digits (not all nine). The two right-most digits represent the sweep hand.

30. To function properly with Itron endpoints, registers must be programmed to remove commas and additional parameters. Use the NEXT/MTW installation application to select **UI-1203 protocol > simplified** to remove the commas.

31. Itron water modules do not support the fixed length format of the Sensus UI1203 protocol.

200WM/200WP remote endpoints

This section lists meter types compatible with Itron 1.4 GHz water endpoint modules.

Note: Itron reserves the right to change product, system specifications, and meter compatibility without advance notice.

Table 55 Approved Meter Configurations

Meter manufacturer	Meter register types	Approved meters	Notes
Elster AMCO	Encoder: Scancode, InVISION, Aqua Master, evoQ4 Pulser: Digital, V100T	See file attachment in left pane for approved meter register listing.	1, 2, 7
Badger	Pulser: RTR Encoder: ADE E-Series: ADE HR-E-LCD	See file attachment in left pane for approved meter register listing.	3
Sensus/Invensys/Precision	Pulser: PMM (with 4-hole blue reed switch housing) Encoder: ICE, ECR III, ECR, ECR WP, AMR System, TR-PL iPERL	See file attachment in left pane for approved meter register listing.	4, 5
Hersey/Mueller	Encoder: Translator	See file attachment in left pane for approved meter register listing.	
Metron Farnier	Encoder: OER	See file attachment in left pane for approved meter register listing.	
Neptune/Schlumberger	Encoder: ProRead, ProRead Auto Detect, ARB V, E-Coder	See file attachment in left pane for approved meter register listing.	6, 8
Itron/Actaris	Pulser: Cyble Sensor K10 Encoder: Cyble Coder	See file attachment in left pane for approved meter register listing.	
Hendy Performance Meter	Encoder: ETR	See file attachment in left pane for approved meter register listing.	
Severn/Trent	Encoder: SmartMeter - Sensus Protocol	See file attachment in left pane for approved meter register listing.	
SeS Siemens	Mag8000CT - 7ME6820	See file attachment in left pane for approved meter register listing.	

Notes

1. Itron meters are not compatible with 1-½ inch and 2-inch imperial gallons, US gallons high speed and cubic feet high speed C700 meters with Elster AMCO Digital registers.
2. Compatible with Elster AMCO Digital registers with tamper reed switch.
3. Badger supplies cable with RTR for remote.
4. For ECR III AMR SYSTEM register on PMM meter, refer to ERT part numbers under Invensys/Sensus.
5. Compatible with Precision PMM registers with four mounting holes that accept Precision's blue housing reed switch assembly with four mounting screws.
6. Neptune's ProRead register must be programmed with the Neptune ProRead Portable Programmer as follows:

RF/MIU ID SINGLE

DC: E65N or E49N UC: X

ID: X 00

7. DC Signifies Dial Code. Itron suggests model E65N registers be programmed with this value (for example, six encoded wheels with the resolution of last encoded wheel being zero or five). Itron suggests E49N registers be programmed with this value (for example, 4 encoded wheels with the resolution of last encoded wheel being zero through nine).
8. Only applies to registers with Elster AMCO protocol.
9. The E-Coder is compatible with registers configured for six-digit ProRead output as well as E-Coder Plus functionality with an eight-digit output. Only E-Coder registers made after 2006 are qualified for use with Itron endpoints.

Telemetry devices

Table 56 Approved Telemetry Devices

Device Manufacturer	Device Model	ERT Type	Part Number
United Systems Corporation (USC)	WCV100	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303
			ERW-1300-403
		100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306
			ERW-1300-406
		100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318
			ERW-1300-418
Smart Earth Technologies (SET)	SETflow™ 100	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303
			ERW-1300-403
		100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306
			ERW-1300-406
		100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318
			ERW-1300-418
		500W	ERW-1601-001
			ERW-1601-002