

ACE8000 type 100

Ripple Control Receiver and Time Switch

The Itron ACE8000 type 100 is a universal ripple control receiver offering a wide range of functions and possible configurations in a single product. It can act as a time switch when equipped with a display and battery. The ACE8000 type 100 is part of the Itron PULSADIS ripple control system.

Flexible presentation

The ACE8000 type 100 is equipped with a programmable digital filter (frequency, voltage and levels). The ripple control frame and the output contact operations are also programmable.

The ACE8000 type 100 is housed in a sealable case, which can accept up to 3 or 4 output contacts, 16 A - 25 A or 40A, soldered or plug-in.

Wide range of applications:

- > Compatibility with all existing codes at frequency of up to 2000 Hz
- > Direct, cyclic or temporized functions
- > Programmable behaviour during power outage or return.
- > Possible combination of programmes
- > Compatibility with the DIN43861-301 standard (individual addressing and remote parameterisation of the receivers)

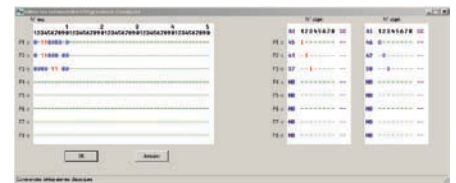
New control functions:

The ACE8000 type 100 includes features, which ensure the smooth operation of the system:

- > Confirmation of the output relays position every 2 minutes.
- > Measure of the ripple control signal:
 - Real time display
 - Memorisation of the last telegram values (level + pulses)
- > Memorisation and repetition of the last daily programme received in case of detection of transmitter failure.
- > Operation of the ACE8000 type 100 can be displayed in real time on a PC.

Flexible and easy configuration:

Programming of the ACE8000 type 100 can be done easily. Configuration files are created with the ACE PULSE software and then loaded into the product through an RS232 or Infra Red probe, using a PC or Pocket PC computer. The software is user-friendly with on-line support.



A Real-Time Switch Function:

The ACE8000 type 100 can act as a time switch with the following features:

- > 16 switching programmes in association with 64 calendar periods.
- > Weekday conditions.

Options of the ACE8000 type 100:

- > Number and rating of output relays
- > Supercap or battery for data back-up
- > LCD display
- > IR interface (EN61107 standard)



> ACE8000 type 100

- Tariff switching
- Load Management
- Flexibility
- Wide range of applications
- Advanced control functions

Technical Characteristics

Electrical data

Nominal voltage	Un = 230V (-20% / +15%) Un = 100V (-20% / +15%)
Nominal frequency	Fn = 50/60 Hz (+/- 2%)
Power consumption	0.7 W / 9VA

Filter (programmable)

Thresholds	Unf ≤ 0.2 % Un Uf ≥ 0.5% Un
Frequency	100.....2000 Hz

Output relays

Up to 4 soldered relays	16 A - 250 V Cos φ = 1 8 A Cos φ = 0,4
Up to 3 plug in relays	25 A - 250 V Cos φ = 1 10 A Cos φ = 0,4
Up to 3 plug in relays	40 A - 250 V Cos φ = 1 10 A Cos φ = 0,4

Environment

Operating temperature	from - 25 to + 70° C
Storage temperature	from - 30 to + 70° C

Relevant standards

Ripple control receiver	EN 62054-11
Time switch	EN 62054-21

Surge withstand

Test voltage	4 kV 50 Hz, 1mn
Surge voltage	6 kV, 1.2/50µs
Overvoltage category	3
Protection class	2

Protection from dust and water

Housing	IP53
Terminal board	IP31

Weight and Dimensions

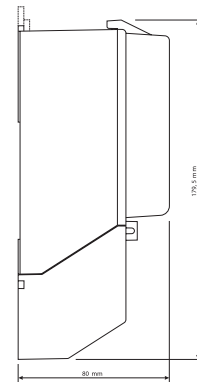
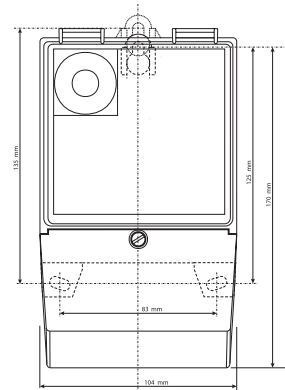
Dimensions	104 x 80 x 180 mm
Fixing triangle	135 x 83 mm - DIN43861-2
Weight (fully equipped)	0.5 kg

Connections

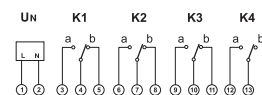
Phase conductor cross section	up to 8 mm ²
Output relays cross section	up to 2 x 2.5 or 1 x 6 mm ²

> Dimensions

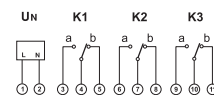
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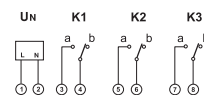
> Up to 4 soldered contacts 16A



> Up to 3 plug in contacts 25A



> Up to 3 plug in contacts 40A



About Itron Inc.

Itron Inc. is a leading technology provider to the global energy and water industries. Our company is the world's leading provider of metering, data collection and utility software solutions, with nearly 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water. Our products include electricity, gas and water meters, data collection and communication systems, including automated meter reading (AMR) and advanced metering infrastructure (AMI); meter data management and related software applications; as well as project management, installation, and consulting services. To know more, start here: www.itron.com

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