



# iP503-124 "ANSI"

Itron G5/FC200/FC300  
Universal Optical Probe

## FEATURES

- New **ANSI** Compatible Design
- New bi-color LED indicator for TX/RX communication signals
- New Smaller Housing made of **Polycarbonate** with Glass Fiber Reinforcement
- Compatible with **ANSI C12.18-1996** or **2006** Standards
- Designed for use with Itron G5, G5R, and FC200/FC300 Handheld computers
- Compatible with virtually all ANSI utility meters, registers and recorders
- Power to Probe controlled by HH meter reading software
- Rugged, high-quality and long lasting Black Polyurethane coiled cord (18" long Ext to 6')
- Even lighter weight for reduced fatigue, wear and tear
- Polycarbonate filter to enhance infrared (IR) communications
- Powerful magnets in probe head for strong magnetic adhesion to meter's optical port



## OVERVIEW

The NEW **iP503-124 ANSI** Optical Probes are designed for reading and programming **ANSI** electrical power meters. They feature a Bi-Color LED on the probe cover to indicate TX and RX communication signals that turn RED and GREEN, respectively, while communicating with the meter. In addition, they incorporate a new smaller housing design that make them even lighter weight but still rugged with their Polycarbonate Glass Fiber Reinforcement material.

These probes are configured for use with **Itron G5, G5R and FC200/FC300** handheld computers. Their optical circuitry supports ANSI C12.18-1996 and 2006 communication protocols. They obtain their power directly from the handheld computer and it is controlled by the meter reading software.

The NEW **iP503-124 ANSI** Optical Probes solve problems relating to mechanical wear-out due to the demanding environment under which probes are constantly subjected to. We address this problem using the most rugged mechanical and electrical design in the industry. These probes are designed with an almost indestructible Polycarbonate head that contains powerful magnets that ensure a good retention when attached to the meter's optical port. They are also designed with a high-endurance, flame retardant, polyurethane molded cable 18" long that withstands the outside rugged environment. This claim is backed with an aggressive warranty and service policy.

# TECHNICAL SPECIFICATIONS

## iP503-124 "ANSI"

### Mechanical Specifications

Physical size	Length 2.14", Width 1.38", Height 1.24"
Cable Type	Coiled, Rugged, Black Matte, Flame Retardant Polyurethane, Polypropylene Conductor Insulation
Cable Length	18" Coiled, extends to 6 Feet
Connector	Hirose, 12-pin, Male, Push-pull mechanism, Gold plated contacts
Weight	Complete assembly weighs a maximum of 5.6 ounces (0.35 lbs)
Finish	Probe Head Light Gray Polycarbonate
Reliability	One-year (1) warranty for parts and labor

### Electrical Specifications

Signal Spec.	Serial RS232, EIA232
LED Indicator	TX (Red), RX (Green)
Compatibility	ANSI C12.18-1996 or 2006
Power Req.	Operating supply voltage +5V DC (from computer's RS232 port)
Data Rate	Controlled by meter for OPTOCOM interface, 0-19,200 baud for Non-OPTOCOM meters
Optical	890 nm bi-directional IR interface

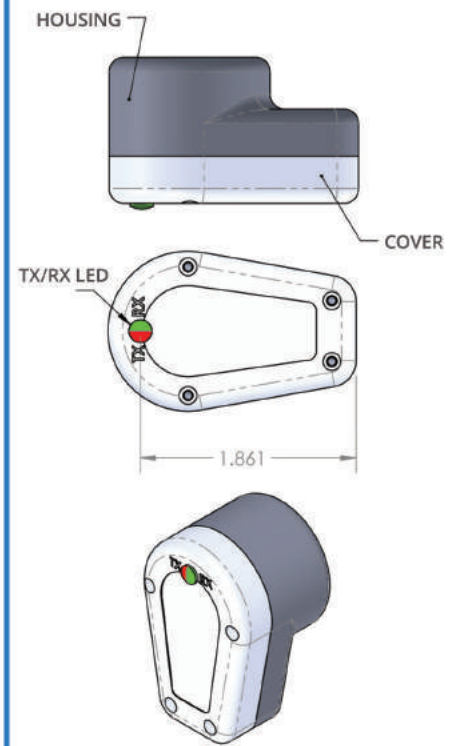
### Environmental Specifications

Temperature	Operating -30° to 60° C; Storage -40° to +85°
Ruggedness	Meets the requirements of a number of tests including those for Thermal Shock, Humidity, Water Resistance, RF Susceptibility, ESD, Drop, Random Vibration, Solar Radiation, Salt, Fog and Low Pressure.

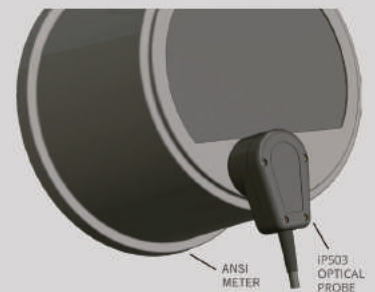
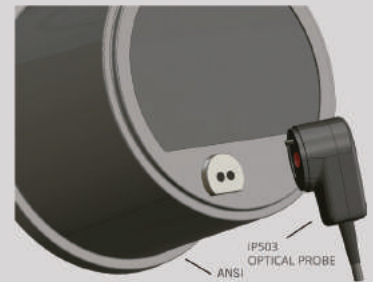
**PC Interface** Itron G5, G5R, FC200, FC300

### Some Compatible Meters

Elster (ABB)	2550, 2650, All Alpha, Alpha T, A3, Alt, A1R, A1R+, 2430, others
Aptech/Robinton	LPR1, LPR2, LPR3, SR500, TR403, TR804
General Electric	KTC-901, KV, KV2, KV2-C, I-210 and others
IUSA	Various
Siemens (Landis&Gyr)	CTR101, CTR102, DC, DCR, DD, DG100, DT, DX, DXR, SD100, SM101, SM301, TMC101, LINC, DCRMA, DDMA, S4 family, AX series, RX series, MAXSYS 2410, MAXSYS 2510, Quad 4, others
Nexus	1262/1272
PSI	S100, S200, Quad 4
Pwr Measurement	ION 7000 series, 8000 series
Quad Logic	RSM-5
Itron (Schlumberger)	Datastar, Fulcrum, MT100, MT200, Quantum, Q1000, Sentinel, Centron, Vectron, Openway
Synergistics	B40
Transdata	EMA, Mark V
Others	Not listed - to be added later



### METER ATTACHMENT ILLUSTRATION



\*\* We recommend special care when attaching the probe connector to the handheld communications port (receptacle) to avoid bending or damaging the connector contacts. Please refer to the "Hirose Plug Connections Procedure" to view proper probe connection to handheld \*\*

