

PM200-124

Truly Universal Optical Probe



Features

- Two probes in one: ANSI Type 2 & IEC Flag style head - combined
- Compatible with virtually all utility meters, registers and recorders that employ ANSI C12.18, IEC 1107 and GE OPTOCOM communications protocols
- Designed for use with ITRON G5, G5R and FC200 handhelds
- Power to probe controlled by Meter Reading Software
- Rugged design with aluminum housing
- Molded cable construction with high-end endurance polyurethane
- Operates over a wide range of temperature (-30° C TO +65° C)
- Polycarbonate filter to enhance infrared (IR) communications

Overview

The **PM200-124** Optical Probe is designed for reading and programming electric power meters employing the ANSI C12.18, IEC 1107 and GE OPTOCOM optical ports. This optical probe is designed with a unique style head that attaches to either ANSI Type 2 or IEC (FLAG) meter ports by just turning the probe head over depending on the type of meter being read/programmed. This design completely eliminates the need to carry a number of probes to perform reading and programming operations that require a variety of meter platforms. Its optical circuitry supports ANSI C12.18-1996, GE OPTOCOM and IEC 1107 communications protocols by switching automatically from one to the other depending on the meter type. This probe is specifically configured for use with the Itron G5, G5R and FC200 handheld computers.

The PM200-124 utility meter reading probe uses advanced optical sensors to collect meter data and transmit it to the Itron hand-held computer. This allows metering data to be recorded more simply, accurately and efficiently. In addition, the PM200-124 incorporates a universal compatibility design to read virtually all utility meters, registers and recorders.

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

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Mechanical Specifications

Physical Size	Height 2.44"; Length 1.68"; Width 1.38"
Cable Type	Coiled, Polyurethane & Hytrel construction, Flexible & Rugged
Cable Length	18" Coiled, extends to 10'
Connector	Hirose, 12-pin, male, push-pull mechanism, gold-plated contacts
Weight	Complete assembly weighs a max. of 9oz.
Finish	Probe head has a clear anodized outer coating per MIL-A-63576A, Type I

Electrical Specifications

Signal Spec	TTL, Hand-held Serial port
Power Req.	Operating Supply Voltage: 4.5 to 6.0 VDC (from Computer's host port)
Data Rate	Controlled by meter for OPTOCOM interface, 0 to 19,200 baud for Non-OPTOCOM meters
Optical	880 nm bi-directional IR interface, ANSI C12.18-1996, IEC 1107, GE OPTOCOM

Environmental Specifications

Temperature	Operating -30° to 60° C; Storage -40° to +85° C
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 & Low Pressure

Compatible Meters

ABB	ALPHA A1K, A1R, E1R
Actaris	Indigio+
Ampy Email	A11L, Q3, Q4, P1, Kingfisher Series 1200, 3300, 5100, 5300 EM100, EDM1 Mk 3, Mk 6, Mark 10
Elster	A140, A120, VI40, Vision A1700
Enermet Iskromeco	M372, M420
PRI	Sprint, I Credit 400, Premier
Nilsen	EMS2600e, 26FRC (Now Ampy Email)
Aptech/Robinton	LPR1, LPR2, LPR3, SR500, TR403, TR804
General Electric	DR87, KM901, M90-AE, Phase 3, T80, T91, TM80, TM81, TMR82, TM92, KC901, KTC-901, KV, KV2, KV2-C
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
Metricom	C
PSI	S100, S200, Quad 4
Pwr Measurement	ION 7000 series, 8000 series
Itron (Schlumberger)	Datastar, Fulcrum, MT100, MT200, Quantum, Q1000, Sentinel, Centron, Vectron
Synergistics	B40
Transdata	EMA, Mark V