iP300-330

"USB" Universal Optical Probe

Features:

- Designed for Desktop and Laptop computers
- Compatible with virtually all utility meters, registers and recorders
- Supports **IEC 62056-21 (IEC 1107)** protocol
- USB 1.1 and USB 2.0 communication
- Powered by computer's USB port
- Designed with rugged Aluminum housing (head)
- Power switch in head to control power
- Rugged and long lasting Polyurethane coiled cord (18" long Ext. to 10')
- Lightweight for reduced fatigue, wear and tear
- Powerful magnets in probe head for attaching to Meter's Optical Port

Overview

The iP**300-330** USB Laptop Optical Probes are designed for reading and programming electrical power meters employing the **IEC FLAG** round optical port. These probes are specifically configured for use with Desktop and Laptop computers employing USB 1.1 or 2.0 compatible interface ports. Its optical circuitry supports IEC 62056-21 or IEC 1107 communications protocol. They derive power from the USB ports so there is no need for external Battery Packs or AC Adapters. The power to these probes is controlled by the **"power switch"** mounted in the probe head. When probe not in use, the switch turns off and power is conserved, extending the laptop's battery charge. These probes come with Windows Device Drivers that create a Virtual Serial Port to communicate with the meter manufacturer's windows based software. These drivers are supplied with the probe or can also be downloaded from website.

The iP**300-330** Optical Probes use advanced optical sensors to collect meter data and transmit it to the Laptop computers. This allows metering data to be recorded more simply, accurately and efficiently. In addition, the iP**300-330** probes incorporate a universal compatibility design to read virtually all utility meters, registers and recorders.

The iP**300-330** 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 aluminum 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 polyurethane molded cable 18" long that withstands the outside rugged environment. This claim is backed with an aggressive warranty and service policy.

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Technical Specifications

Mechanical Specifications

Physical size	Height 2.44"; Length 1.68"; Width 1.38"
Cable Type	Coiled, Polyurethane and Hytrel construction, Flexible and Rugged
Cable Length	18" Coiled, extends to 10'
Connector	USB standard "Type A" plug
Weight	Complete assembly weighs a maximum of 9 ounces
Finish	Probe head has either a Clear Anodized Outer Coating per MIL-A-68625, Type 2 or a Hard Black Anodized Outer Coating per MIL-A-8625, Type 3
Reliability	Two-year (2) warranty for parts and labor

Electrical Specifications

Signal Spec.	Acts as a device to a host PC USB port
Compatibility	IEC 62056-21 or IEC 1107 protocol
Power Req.	+5V DC powered by USB port
Data Rate	Controlled by meter for OPTOCOM interface, USB 1.1 (250K bps), USB 2.0 (12M bps) for non-OPTOCOM meters
Optical	880 nm bi-directional IR interface
Software	Drivers for multiple platforms; Windows 98/2000/XP, Mac OS-9, Mac OS-X, Linux 2-40 and greater (included with probe as well as downloadable from website)

Environmental Specifications

Temperature	Operating -30° to 60° C; Storage -40° to +85° C
Ruggedness	Meets the requirements of a numbers 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
USB 1.1 or 2.0 Port

Some Compatible Meters

ABB	2550, 2650, All Alpha, Alpha T, A3, Alt, Alr-al, 2430, others
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, others
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
Metricom	C
PSI	S100, S200, Quad 4
Pwr Measurement	ION 7000 series, 8000 series
Itron (Schlumbergër)	Datastar, Fulcrum, MT100, MT200, Quantum, Q1000, Sentinel, Centron, Vectron
Synergistics	B40
Transdata	EMA, Mark V

***NOTE: Please follow the procedure "USB Probe Drivers Installation Instructions" to install the optical probe windows driver software prior to using the USB optical probe.*

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