

iP501-330

Dual ANSI / IEC "USB" Optical Probe



FEATURES

- **2 probes in 1: ANSI and IEC compatible design**
- New Smaller Housing design made of Polycarbonate with Glass Fiber Reinforcement
- Compatible with either ANSI C12.18 or IEC 62056-21 (1107) meters as well as GE OPTOCOM
- Designed for Desktop and Laptop computers
- Compatible with virtually all utility meters, registers and recorders
- USB 1.1 and USB 2.0 communication
- Powered by computer's USB port
- Rugged and long lasting Gray Polyurethane coiled cord (18" long Ext. to 10')
- Optional straight cord also available in 5 feet long (Model iP501-330 S)
- Even lighter weight for reduced fatigue, wear and tear
- Powerful magnets in probe head for attaching to meter's optical port



OVERVIEW

The NEW **iP501-330** USB Optical Probes are designed for reading and programming **ANSI** and **IEC** electrical power meters. **NOW, THERE IS NO NEED TO CARRY 2 OPTICAL PROBES FOR READING OR PROGRAMMING METERS THAT EMPLOY EITHER TYPE OF OPTICAL PORTS.** 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 Desktop and Laptop computers employing USB 1.1 or 2.0 compatible interface ports. Their optical circuitry supports **ANSI C12.18-1996, IEC 62056-21 (1107)** as well as **General Electric OPTOCOM** communications protocols by switching automatically from one to the other depending on the meter type being read. This design feature makes them universally compatible to read virtually all utility meters, registers, and recorders. They derive power from the USB ports so there is no need for external Battery Packs or AC Adapters.

These probes come with Windows Device Drivers Software that create a Virtual Serial Port to communicate with the meter manufacturer's Windows-based software. Installation and configuration instructions are included with the probes.

For reading and programming ANSI meters, the optical probe is attached to the meter's optical port in the standard position (cable facing downwards) and for IEC meters the probe is attached to the meter's optical port inverted (cable facing upwards) (**See Page 2 for Meter Attachment Illustration**)

The NEW **iP501-330** 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 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 polyurethane molded cable 18" long that withstands the outside rugged environment. This claim is backed with an aggressive warranty and service policy.

TECHNICAL SPECIFICATIONS

Mechanical Specifications

Physical size	Length 2.14", Width 1.38", Height 1.14"
Cable Type	Coiled, Gray Polyurethane and Hytrel construction, Flexible and Rugged
Cable Length	18" Coiled, extends to 10'
Connector	USB standard "A" plug
Weight	Complete assembly weighs a maximum of 5.6 ounces (0.35 lbs)
Finish	Probe Head Light Gray Polycarbonate
Reliability	Two-year (2) warranty for parts and labor

Electrical Specifications

Signal Spec.	Acts as a device to a host PC USB port
Compatibility	ANSI C12.18-1996, IEC 62056-21 (1107) and GE OPTOCOM
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/VISTA, Mac OS-9, Mac OS-X, Linux 2-40 and greater

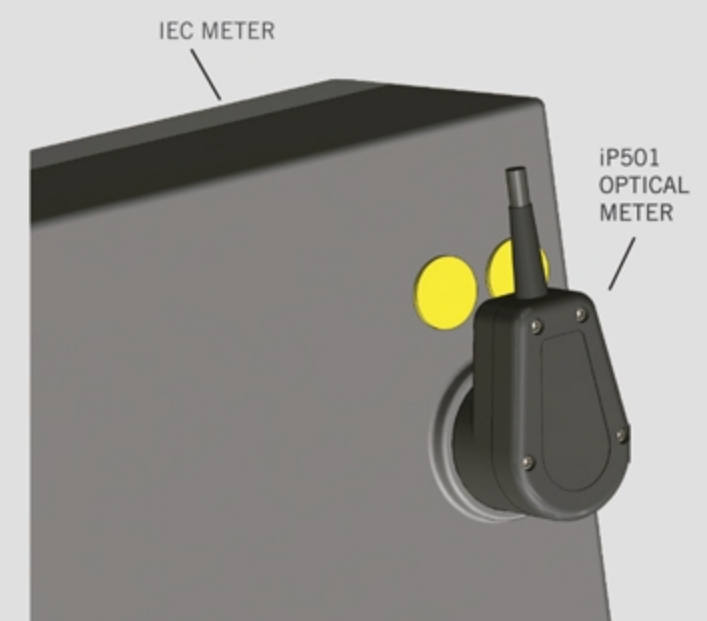
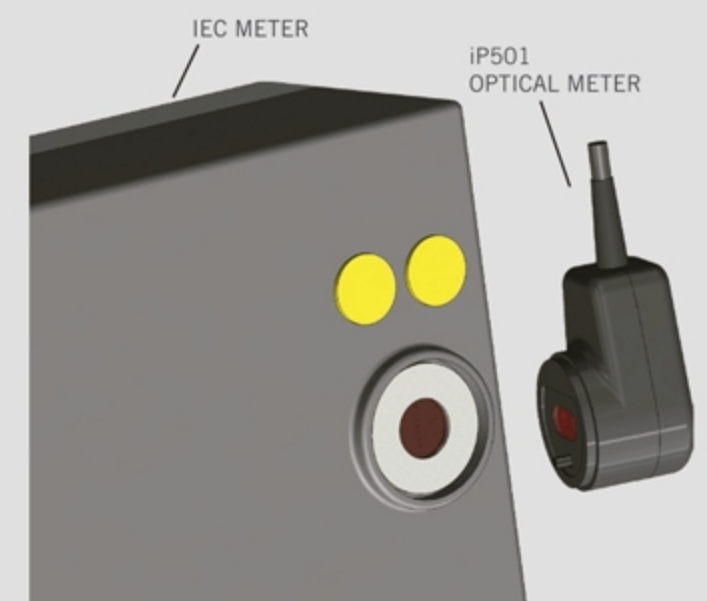
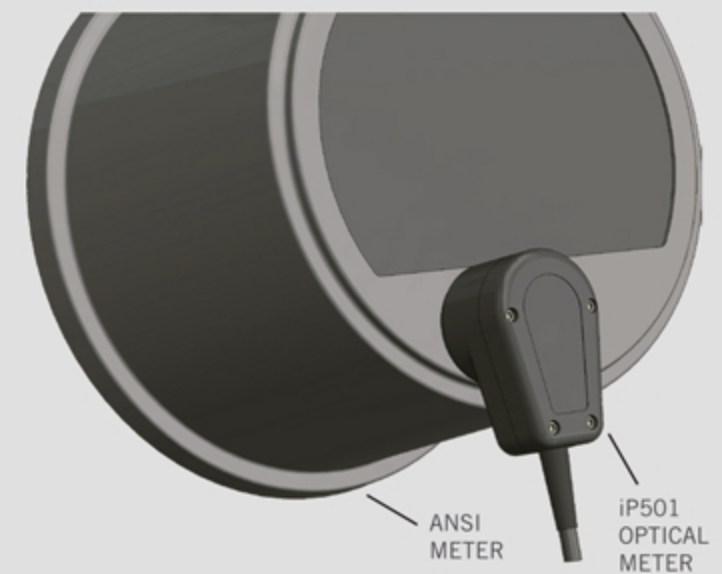
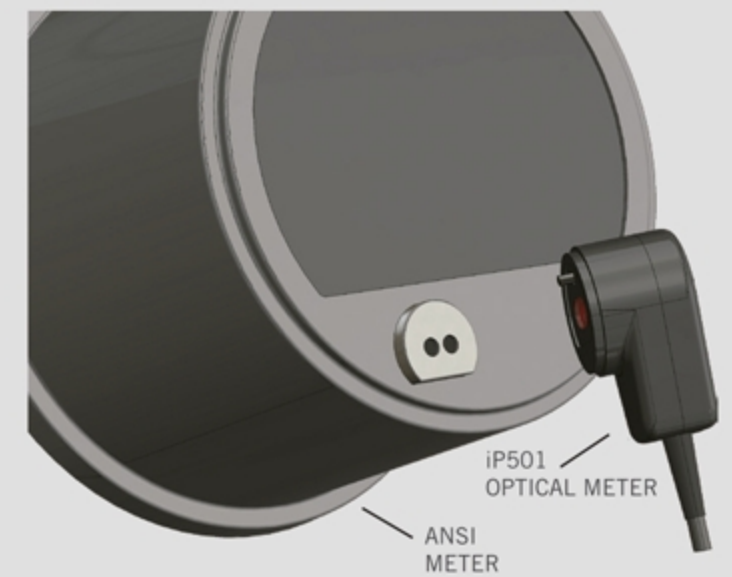
Environmental Specifications

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 (Schlumberger)	Datastar, Fulcrum, MT100, MT200, Quantum, Q1000, Sentinel, Centron, Vectron
Synergistics	B40
Transdata	EMA, Mark V

METER ATTACHMENT ILLUSTRATION



ABOUT US

- We were founded in 2010 with one purpose in mind: to provide high-quality products, services, and support to customers in the utility meter reading industry.
- We manufacture optical probes for reading and programming ANSI and IEC electric meters.
- We carry the most durable, mechanical and electrical design in the industry.
- Our probes can be configured to interface with virtually any handheld computer or PDA available in today's market.

DURABLE & RUGGED OPTICAL PROBES

Our iP500 Series probes feature a highly-resistant aluminum head and now our iP501 Series probes feature a light-weight Polycarbonate head, both designed with powerful magnets to ensure great retention when attached to the meter's optical ports.



PROBES FOR HANDHELDS

Our universal optical probes can be configured to interface with handhelds such as DAP Technologies, Itron, Intermec, Radix, and others.

PROBES FOR PCS

Our probes are designed to interface with desktop or laptop PC computers through serial RS232 or USB communication ports.

CUSTOMIZED SOLUTIONS

We specialize in the production, repair & maintenance of the most popular probes in the market!

We design, manufacture and market a range of optical probes designed to program and read electric and gas meters that incorporate the ANSI Type 2 as well as IEC Flag optical ports.

YOUR METER READING SOLUTION

No matter what computer you are using out in the field for your meter data collection, you can be sure that we can provide an optical probe for that application.

REPAIRS & MAINTENANCE

We offer quality repairs and maintenance on probes manufactured by Intelliprobe and its predecessors (US Microtel and Dataacquisition Technologies) to meet your budget and planning requirements.



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