

iP503-330 '2S' ANSI

"USB" Optical Probe
with TX/RX LED



FEATURES

- New **ANSI** Compatible Design
- New Bi-Color LED Indicator for TX/RX Communication Signals
- New Smaller Housing Design Made of Polycarbonate with Glass Fiber Reinforcement
- Compatible with **ANSI C12.18-1996** or **2006**
- Designed for Desktop/Laptop Computers and Tablets
- USB 1.1 and USB 2.0 communication
- Compatible with virtually all utility meters, registers and recorders
- Powered by Computer's USB Port
- Straight Cord, 6 Feet Long (2 Meters)
- Even lighter weight for reduced fatigue, wear and tear
- Polycarbonate filter to enhance infrared (IR) communications
- Powerful magnets in probe head for attaching to meter's optical port



OVERVIEW

The NEW **iP501-330 '2S'** ANSI USB Optical Probes are designed for reading and programming ANSI electrical power meters. Their new design features a **Bi-Color LED** on the probe cover to indicate the **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 makes them even lighter weight but still rugged with their Polycarbonate Glass Fiber Reinforcement material.

These probes are configured for use with Desktop / Laptop computers and Tablets employing USB 1.1 or 2.0 compatible interface ports. Their optical circuitry supports **ANSI C12.18-1996** or **2006** communication protocols. They are compatible with virtually all ANSI 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.

The NEW iP503-330 '2S' 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 designed with a Straight PVC molded cable 6 feet long (2 meters) 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	Straight, PVC Jacket
Cable Length	6.0 Feet (2 Meters) Long
Connector	USB Standard "Type A" Plug
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.	Acts as a device to a host PC USB port
LED Indicator	TX (Red), RX (Green)
Compatibility	ANSI C12.18-1996 or 2006
Power Req.	+5V DC Powered by USB Port
Data Rate	Controlled by meter for OPTOCOM interface, USB 1.1 (250Kbps), USB 2.0 (12Mbps) for non-OPTOCOM meters
Optical Software	880 nm bi-directional IR interface FTDI chip Drivers for multiple platforms; Windows 98/2000/XP/VISTA/Win7, Mac OS-9, Mac OS-X, Linux 2-40 and greater

Environmental Specifications

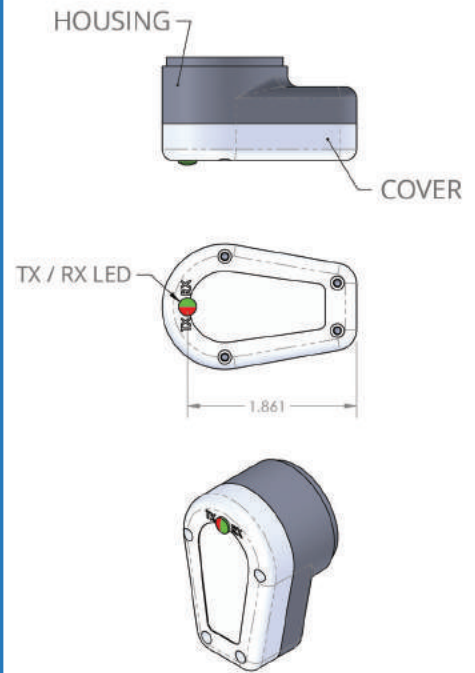
Temperature	Operating -30° to 60° C; Storage -40° to +85°
Ruggedness	Meets the requirements of a numbers of tests including those for Thermal Shock, Humidity, Water Resistance, RF Susceptibility, ESD, Drop, Random Vibration, Solar Radiation, Salt, Fog and Low Pressure.

PC Interface

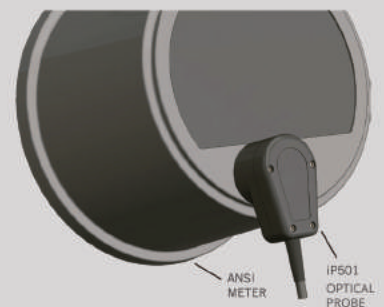
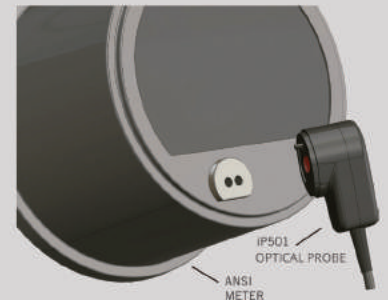
USB 1.1 or 2.0 Port

Some Compatible Meters

ABB	2550, 2650, All Alpha, Alpha T, A3, Alt, A1R, A1R+, 2430, others
Aptech/Robinton	LPR1, LPR2, LPR3, SR500, TR403, TR804
General Electric	KV, KV2, KV2-C, 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
Metricom	C
Nexus	1260 Series, others
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
Others	Not listed - to be added later



METER ATTACHMENT ILLUSTRATION



intelliprobe

www.intelliprobe.net
2041 Industrial Drive, McAllen, Texas 78504

Tel: 956-630-1833
Fax: 956-630-2241