

ABACUS A9U ANSI Type 2 USB Optical Communication Probe

Model: A9U-P-U04M-2A



TransData’s Abacus A9U ANSI Type 2 USB Optical Communications Probe utilizes infra-red LED technology to provide a galvanically isolated, bi-directional communications link between computers and ANSI electric meters for obtaining meter data, performing site diagnostics and making programming changes. Abacus Optical Probes are renowned throughout the electric utility industry for their superior reliability and capability of interfacing with the widest variety of ANSI electric meters.

The Abacus A9U Optical Probe features a standard USB Type-A computer interface and a magnetized head that attaches to the metal “D” ring on ANSI electric meter covers. The Abacus A9U head contains precision engineered circuitry that converts electrical signals to infra-red light signals that are transmitted and received thru the electric meter cover to a set of infra-red LED’s located inside the electric meter as specified in ANSI C12.18-1996 (U.S.A.) and AS 1284.10.2-1993 (Australia). The A9U’s ABS plastic head provides galvanic isolation to protect users from electrical surges when connecting to hard-wired optical ports and accidental contact with live potential wiring.

The Abacus A9U includes “virtual serial port drivers” that enables use with Windows application software that expects the probe to be connected to a conventional RS232 serial port. For communicating with electric meters that don’t comply with ANSI C12.18 Data Terminal Ready (DTR) polarity requirements, the Abacus A9U enables using the virtual serial port signal as a DTR polarity switch that enables communicating with these meters

Installation of Drivers through Windows Update is recommended

Specification:

Model Number:	A9U-P-U04M-2A
USB Interface:	USB 1.1, USB 2.0 and USB 3.0 compliant
Power Supply:	Derived from host port
Lead:	6 foot cable, captive at probe
Connector:	USB Type-A male plug
Maximum Data Rate:	57600 bits/second
Virtual Serial Port DTR Switching:	DTR negative: Normal mode, ANSI C12.18-2006 compliant DTR positive: Non-ANSI C12.18-2006 compliant meters
Fastening:	Magnetic adhesion
Optical:	Compatible with ANSI C12.18-2006
Mechanical:	High impact ABS housing, dimensions compatible with ANSI C12.18-2006
Software:	Virtual serial port drivers for Windows XP, Vista, 7, 8, /8.1 and 10 – 32/64-bit

Conforms to European Directives:
89/336/EEC (EMC) and 73/23/EEC (LVD)
73/23/EEC (Low Voltage Directive)

