

The Worldwide Leader of Advanced Energy Metering Technologies...

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***ANSI Type 2 Optical Probe with DTR Switch and USB connector for desk-top and lap-top computers.***

**A9U-P-U04M-2A**

2 meter cable

The ABACUS ELECTRICS model A9U ANSI optical probe is a bi-directional interface utilizing infra-red light. Connecting to the USB serial port of a desk-top or lap-top computer it permits galvanically isolated communication with tariff meters as specified in ANSI C12.18-1996 (U.S.A.) and AS 1284.10.2-1993 (Australia).

Supplied with 'virtual serial port' drivers, the A9U probe may be used with Windows application software that expects a conventional probe to be connected to a standard RS232/legacy serial port.

The A9U probe uses 'the virtual serial port' Data Terminal Ready (DTR) signal as a switch that enables the reading of meters such as the Quad 4+ and MAXsys 2510 from Siemens (formerly Process Systems, Inc.).

***Specification:***

USB Interface:	USB 1.1 and USB 2.0 compliant high-speed device
Power Supply:	Derived from host computer
Lead:	2 meter cable, captive at probe
Connector:	USB standard 'A' plug
Optical Interface	
Maximum Data Rate:	57600 bits/second
Virtual Serial Port DTR	DTR negative: Normal mode, ANSI C12.18-1996 compliant
Switching:	DTR positive: Siemens compatible mode
Fastening:	Magnetic adhesion
Optical:	Compatible with ANSI C12.18-1996
Mechanical:	High impact ABS housing, dimensions compatible with ANSI C12.18-1996
Software:	Virtual serial port drivers for Windows 98, 98SE, 2000, ME and XP

Manufactured in the United Kingdom by  
ABACUS ELECTRICS

Conforms to European Directives:  
89/336/EEC (Electromagnetic Compatibility)  
73/23/EEC (Low Voltage Directive)



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***ANSI Type 2 Zero-Power  
Optical Probe with 9-pin  
female 'D' connector  
wired for the IBM-PC  
standard.***

**A6Z-P-D09F-2A**

2 meter cable

The ABACUS ELECTRICS model A6Z Zero-Power ANSI optical probe is a bi-directional interface utilizing infra-red light. Connecting to the serial port of a host computer it permits galvanically isolated communication with tariff meters as specified in ANSI C12.18-1996 (U.S.A.) and AS 1284.10.2-1993 (Australia).

The probe requires no power supply. The transmitter and receiver circuits within the probe derive all necessary power from the host computer serial port.

### ***Specification:***

Signal Levels:	Compatible with EIA232D and V28
Maximum Data Rates:	57600 bits/second
Power Supply:	None required - power is derived from host serial port
Lead:	1, 2 or 3 meter extra-flexible cable, captive at probe
Connector:	9-pin female 'D' wired to the IBM-PC standard
Fastening:	Magnetic adhesion
Optical:	Compatible with ANSI C12.18-1996
Mechanical:	High impact ABS housing, dimensions compatible with ANSI C12.18-1996

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