

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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