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 Switching:
    - Normal mode, ANSI C12.18-1996 compliant
- **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)
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

Manufactured in the United Kingdom by ABACUS ELECTRICS

Conforms to European Directives:

89/336/EEC (Electromagnetic Compatibility)
73/23/EEC (Low Voltage Directive)