

# Zero-Power ANSI Optical Probes

Communication Interface for ANSI Socket Meters

# A7Z/A9U

## Features

- Requires No Power Supply
- High Speed – Up to 57,600 baud
- ANSI Type 2 Compatible
- Works Great with Nexus® Series Socket Revenue Meters
- Extra-flexible, 2 meter cable
- Bidirectional Interface
- Magnetic Adhesion
- DTR Switch
- Serial RS232 or USB Port

## Description

The A7Z and A9U are new ANSI type 2, zero-power, optical communication probes. Their bidirectional interface utilizes infrared light. These new optical communication probes provide an ANSI rated optical communication interface for programming and reading electric utility meters using a serial RS232 or USB port. Connecting to a serial port permits isolated communication with meters.

## Specifications

**Cable Assembly** – Optical probe cable assembly consists of a probe measuring 1.25" in diameter by 1.25" long, and an extra-flexible, 2-meter cable.

**DTR Switch** – A Data Terminal Ready (DTR) signal is used as a switch that enables the probe to read meters. The A7Z and A9U are high speed, allowing data rates of up to 57,600 bits/second.

**Power Supply** – The optical probe requires no power supply. All power is received from the host computer serial port using transmitter and receiver circuits within the probe.

**Port Configuration** – The A7Z can be used with personal computers that have a standard RS232 serial port (9-pin). The A9U can be used with personal computers that have a USB 1.1 or USB 2.0 port. The A9U has Virtual serial port drivers for Windows® 98, Me, 2000, XP, Vista, 7, 8, 8.1 and 10 - 32-bit and 64-bit - operating systems.

The A7Z and A9U have a high impact ABS housing, and their dimensions are compatible with ANSI C12.18-1996.

## Dimensions

Weight: 1 Lb

Dimensions: 8" x 6.4" x 3.5"

## Ordering information

Order Number:

- A7Z (with Serial RS232 Port)
- A9U (with Serial USB Port)



**A7Z** with serial RS232 Port

**A9U** with serial USB Port



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