



SPECIALTY DEVICES

OPP-1i OPTICAL PULSE PICK-UP

DESCRIPTION

The OPP-1i from Solid State Instruments is a convenient and low-cost way to monitor energy consumption information from ITRON Sentinel and Centron electric meters with no physical electrical connection. Using the meter's infrared calibration pulse front face of the Sentinel or the light pipe on the top of the Centron, the OPP-1i picks up the infrared light flash (pulse) each time a pre-determined number of watt-hours (usually 1 Kwh) is consumed by the customer's premises. In this way, the utility, their customer or their energy management contractor can quickly read power from their meter for doing load survey work, demand response or energy management activities at much lower cost than other means. Solid State Instruments' unique optical pulse isolation and conditioning technology allows the calibration pulse to be picked up and converted into standard Form C metering KYZ pulses to interface with power monitoring equipment that uses a pulse input.



The OPP-1i is a one-directional device with read-only capability. It provides a truly secure method of acquiring instantaneous power monitoring information with no hassle.

Known meters which are compatible with the OPP-1i are:

ITRON Sentinel

ITRON Centron

GE I-210

GE I-210+

OPP-1i



SPECIALTY DEVICES

OPP-1i OPTICAL PULSE PICK-UP

SPECIFICATIONS

ELECTRICAL

Power Input:	+13VDC provided by PCR-3 Relay (no additional power required)
Input Signal:	Input signal provided by detection of the infrared light flash from the meter's Calibration LED.
Output:	Form A transistor output compatible with input of PCR-3. Output has 3-conductor 25 foot control cable for connection to PCR-3.

MECHANICAL

Mounting:	Mounts to Sentinel Meter face or Centron top with suction cup.
Size:	1.20" diameter, 1.00" high.
Weight:	4 oz

TEMPERATURE

Temperature Range:	-38° C to +70° C, -36.4° F to +158° F
Humidity:	0 to 98% non-condensing

OPP-1i