

# Integrated Weather Station Digitizer

## DESCRIPTION

The Also Energy Integrated Weather Station Digitizer provides a convenient way to monitor standard weather and pulse sensors on any site. With 6 sensor inputs - 2 Analog (0-25mV, 0-250mV, 0-2.5V), 2 Analog (0-10 VDC or 4-20mA) and 2 Pulse inputs, most sensors are easily integrated. The MODBUS/485 interface enables connectivity with most data acquisition systems.

- Two sensor inputs are designed for low level (0-25mV, 0-250mV, 0-2.5V), low noise applications
- Two sensor inputs are either 0-10 VDC or 4-20mA
- Modbus ground isolated from Analog and Pulse grounds
- All configuration information and pulse data is stored in nonvolatile memory

## SPECIFICATIONS

### Inputs

Power 24VDC  $\pm 10\%$  @ 100mA max  
 Analog Two channels of 0-25mV, 0-250mV, 0-2.5V DIP switch selected  
 1M ohm input impedance  
 Two channels 4-20mA or 0-10v auto-detected  
 0-10v Input impedance = 10k ohms  
 4-20mA Input Impedance = 250 ohms

Pulse Dry contact, 250Hz max.  
 Resolution 12 bits  
 Accuracy  $\pm 0.25\%$  F.S.

### Output

Hardware RS-485, 3-wire, isolated  
 Protocol Modbus RTU Protocol  
 Latency 5mS

### General

Address 6-position DIP switch, 63 addresses  
 Termination Switch Selectable  
 Dimensions TBD  
 Material Base part: ABS, PCB material: 94V-0 FR-4  
 Mounting M36 DIN-RAIL (EN50022)

### Environment

Op Temp  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$   
 Humidity 0 to 95% RH non-condensing

