135-100 Series Signal Conditioning Translator Boards

- *12 Vdc Input Power*
- *Wind Speed & Direction*
- *Rainfall Accumulation*
- *Analog Outputs*

The **135-100 Series Translator Boards** are a complete line of analog signal conditioning interfaces for almost any sensor input and desired output. Circuit boards utilize the latest technology in low-power solid-state components. They can be used individually or in combinations to create customized systems. NEMA-4X, mast mount, 19" rack mount, and desktop enclosures are available.

The **Model 135-100 Wind Translator Board** provides signal conditioning for wind speed and direction with voltage or current output. The circuit provides a regulated voltage to the wind direction potentiometer and converts wind speed pulse, AC or switch closure sensor outputs to a DC output. 0-100 mph and 0-360° typically = 0-5 Vdc outputs.

Specifications

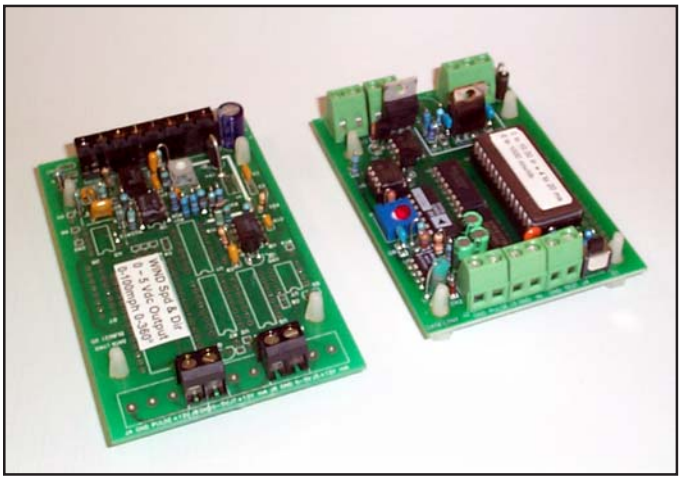
Power: 12 Vdc ± 20%
Power consumption: 20 mA nominal
Inputs: Wind speed sensor (frequency), Wind direction sensor (potentiometer)
Outputs: 0 to 5 Vdc or 0 to 1 mA (open collector)
Overall accuracy: 0.5%
Operating temperature: -30° to +60°C
Storage temperature: -40° to +80°C
Relative humidity: 0-100% non-condensing
Connectors: Screw terminals
Size: 3-1/2" x 2-1/2"
Weight/shipping: 4 oz/1 lb

Ordering Information

135-100	Wind Speed/Wind Direction Translator PCB, 0-5 Vdc or 0-1 mA
350-290	Transient Protection, per input channel

The following must be specified when ordering:
Wind sensor model number
Wind speed range, mph, knots, m/s, or kmh
Wind speed full scale unit (0-100 mph is standard)
Output type, 0-5 Vdc or 0-1 mA

395-301	NEMA Enclosure
395-A-003	Mast Mounting Hardware



135-100 WS/WD Translator PCB *135-102 Digital-to-Analog Conversion PCB*

The **Model 135-102 Precipitation D to A Conversion Board** converts digital pulses to voltage or current output. Use with tipping bucket rain gauges or other pulse output devices like contact anemometers or flow sensors. The circuit accumulates switch closure events and converts the events into a linear increasing DC output. When the circuit accumulates it's maximum count the output resets to zero and starts the process over again.

Specifications

Power: 12 Vdc ± 20%
Power consuption: 15-20 mA nominal
Inputs: Two wire switch closure
Inputs: 0-1000 counts (10 bit resolution), other ranges are available (0-10, 0-100, 0-500, etc.)
Outputs: 0-1 or 4-20 mA, or 0-5 Vdc
Zero reset: on-board or external
Operating temperature: -30° to +60°C
Storage temperature: -40° to +80°C
Relative humidity: 0-100% non-condensing
Connectors: Screw terminals
Size: 3-1/2" x 2-1/2"
Weight/shipping: 4 oz/1 lb

Ordering Information

135-102	Digital to Analog Conversion PCB, 10 bit resolution, 0-1 or 4-20 mA, or 0 5 Vdc
350-290	Transient Protection, per input channel

The following must be specified when ordering:
Number of events required for full scale (0-1000 is standard)
DC Output, 0-1 or 4-20 mA, or 0-5 Vdc