

LLAC4

Four-Channel, Low-Level AC Conversion Module



The LLAC4 is a small peripheral that increases the number of low-level ac signals a datalogger can monitor. The module enables four datalogger control ports to emulate pulse counting channels by converting the low level ac signals to the logic levels read by the control ports.

To use the LLAC4, the datalogger control ports must accept high frequency pulses. Dataloggers whose control ports accept high frequency pulses are our CR800, CR850, CR1000, CR3000, and CR5000. The CR200(X)-series dataloggers are also compatible but the low-level ac signals must not exceed 1 kHz.

The LLAC4 is often used to measure up to four anemometers, and is especially useful for wind profiling applications. Compatible wind sensors are the 05103 Wind Monitor, 05103-45 Alpine Wind Monitor, 05106 Marine Wind Monitor, 05305 Wind Monitor-AQ, 03002 Wind Sentry Set, and 03101 Wind Sentry Anemometer (the 014A Anemometer and 034B Windset are not compatible).



The LLAC mounts directly to the backplate of our enclosures. A supplied cable connects the LLAC4 to the datalogger wiring panel.

Specifications

Power: 0.1 mA @ 12Vdc

**Minimum AC Input Voltage versus
Output Square Wave Frequency:**

Input Sine Wave (mV RMS)	Output Range (Hz)
20	1.0 to 20
200	0.5 to 200
2000	0.3 to 10,000
5000	0.3 to 20,000

**AC Coupling Removal
of DC Offset:** up to ± 0.5 V

Input Hysteresis: 16 mV @ 1 Hz

**Maximum AC
Input Voltage:** ± 20 V

Maximum Cable Length: 1000 ft (305 m)

Dimensions (without base mounting flanges)

Width: 3.1 in (8.0 cm)
Height: 2.1 in (5.4 cm)
Depth: 1.0 in (2.5 cm)

Dimensions (with base mounting flanges)

Width: 4.5 in (11.2 cm)
Height: 2.1 in (5.4 cm)
Depth: 1.0 in (2.5 cm)

Cable Length: 2 ft (0.6 m)

Weight: 3.2 oz (92 g)

