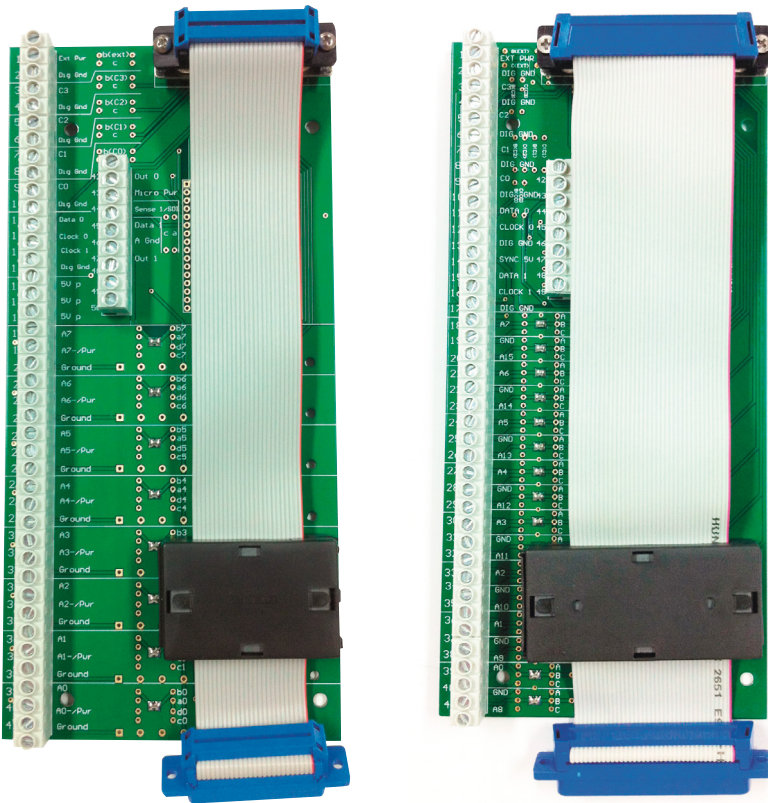


STARLOG & NEON

IP DATALOGGER INTERFACE MODULES



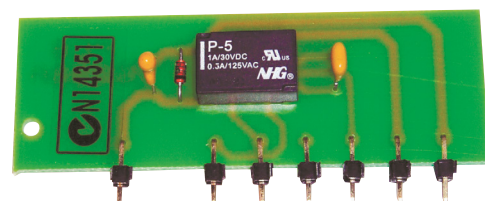
To simplify use and get the most out of Unidata's datalogger range, the following components can be added to enhance logger performance.

A Field Termination Strip (FTS) is normally added to a data logger to simplify instrument connection and to identify one logging site from another. The FTS extends a data logger's signal connections to a row of numbered screw terminals. These terminals make it easy to connect/disconnect instruments to/from the logger on site. The FTS provides mounting facilities for reference resistors and additional signal filtering and conditioning components. Signal conditioning equipment is typically soldered onto a FTS becoming part of the on-site installation.

I/O MODULES

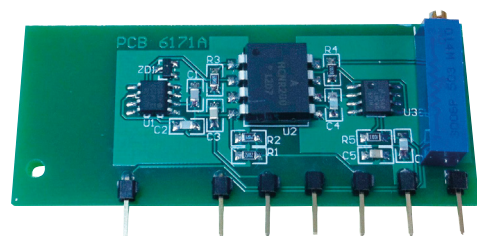
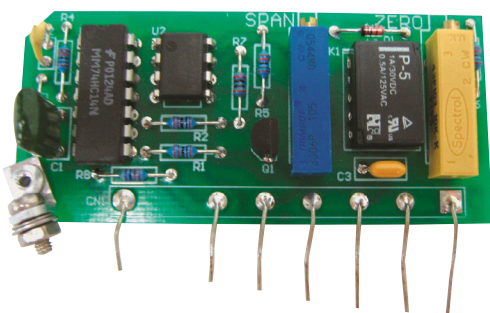
The Isolated input amplifier model 6107B extends the signal range for Unidata data loggers allowing for devices with low level input signals such as thermocouples and PT100 bridges to be connected to the logger.

Isolated interface input module model 6141A for use with Starlogger and model 7121A for use with Prologger provides isolation for transducers which cannot be directly connected to a datalogger e.g. current loop transducers.



Modules are designed to be mounted on the Starlogger and Prologger FTSs with option of fitting up to eight modules to the corresponding FTS.

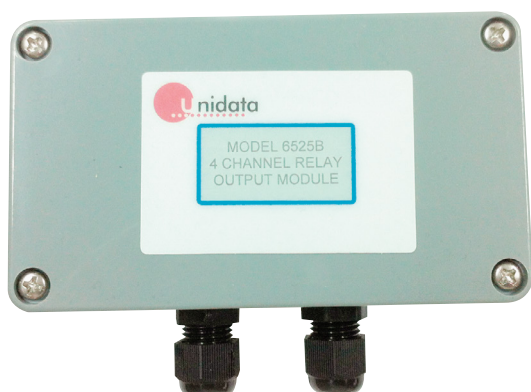
4-20mA current loop isolator model 6144A for use with Starlogger and model 7121C for use with Prologger are modules that isolate a Starlogger/Prologger from a 4-20mA current loop input signal. The signal is optically coupled, then



converted to a voltage signal suitable for measurement by the logger. The module is partially powered by the loop current, allowing for a low power drain from the logger.

4-channel relay control module model 6525B is an interface designed to allow the datalogger to control four magnetically latched relays. This permits the logger to be used as a controller of four external devices through the four potential free contacts. Up to four modules can be connected to a Starlogger or Prologger.

Single channel relay control module model 6114A is used to switch on/off an external instrument from the logger, for example, switch on a pump or a lamp, or set off an alarm. It is mounted on a FTS and uses the pulse output from the logger to latch the relay.



6525B SPECIFICATIONS

4-CHANNEL RELAY CONTROL MODULE	
INPUT:	Programmable output control from Data Logger via high speed serial
OUTPUT:	Potential free latched relay contact Double Pole Double Throw (DPDT)
CONTACT RATING:	240VAC, 0.5A Max
POWER:	5VDC, 2mA from Logger
MATERIAL:	ABS IP65 Sealed Enclosure
SIZE:	115mm x 65mm x 55mm (LxWxH)
WEIGHT:	400g

6118B SPECIFICATIONS

UNIVERSAL COUNTER MODULE	
INPUT:	Suitable for potential free contacts and 5-12VDC digital signals, up to 20kHz
OUTPUT:	High speed serial
MATERIAL:	ABS IP65 Sealed Enclosure
SIZE:	115mm x 65mm x 55mm (LxWxH)
WEIGHT:	400g

Universal counter module model 6118B extends the number of available counter channels of the datalogger. The standard operation mode is set as four 8-bit counters. Alternatively, two 16-bit counters may be configured for use with a Starlogger or Prologger. Cascading of up to eight counter modules is possible.



6103 & 7100 SPECIFICATIONS

FTS	
NUMBER OF TERMINATIONS 6103:	50
NUMBER OF TERMINATIONS 7100:	58
ANALOG INPUTS 6103:	8 10bit
ANALOG INPUTS 7100:	16 16bit
COUNTER CHANNELS:	4
SERIAL I/O:	2 – 16 Channels
EXTERNAL POWER:	12VDC

6107B SPECIFICATIONS

ISOLATED INPUT AMPLIFIER	
INPUT SIGNAL:	Single ended differential unipolar, bipolar
INPUT IMPEDANCE:	100KΩ to 2.5KΩ
OUTPUT SIGNAL:	0 to 2.5 Volts
ZERO OFFSET:	Adjustable
GAINS:	1 to 250
POWER:	5VDC from Logger

6141A & 7121A SPECIFICATIONS

ISOLATED INTERFACE MODULE STARLOGGER AND PROLOGGER	
INPUT SIGNAL:	Single ended or Differential 0 to ±5VDC
OUTPUT SIGNAL:	Isolated input signal, not amplified
ISOLATION:	Flying capacitor, relay isolated
POWER:	5VDC, 25mA from Logger

6144A & 7121C SPECIFICATIONS

4-20mA CURRENT LOOP ISOLATOR STARLOGGER AND PROLOGGER	
INPUT SIGNAL:	0 to 20mA
OUTPUT SIGNAL:	0.5 to 2.5V factory calibrated, user adjustable
NON LINEARITY:	0.25% of FS maximum
ISOLATION:	>300VDC
POWER:	5VDC, <1mA from Logger

6114A SPECIFICATIONS

SINGLE CHANNEL RELAY CONTROL MODULE	
INPUT:	Programmable output control from Data Logger
OUTPUT:	Potential free latched relay contacts, Double Pole Double Throw (DPDT)
CONTACT RATING:	240VAC, 0.5A Max
POWER:	5VDC, 10mA from Logger