CL16 Specifications[1]

Analogue Inputs	Number	16
	Type	Differential, 5 Megohm Zin with selectable noise supression network
	Connectors	Removable screw connectors at rear (4 way, one per channel)
Signal Types	Voltage	±1.25mV to ±10V in 1.0, 1.25, 2.5 and 5.0 steps
	Current	±25mA (0/20 & 4/20mA) and ±12.5µA to ±35mA with internal shunt
	Thermocouples	J, K, T, E, R, S, B & N (ice point compensation from -17 to +60°C)
	PRT	2, 3 and 4 wire PT100 with individual 6.4mA pulsed excitation
	Strain Gauges	Full bridge with pulsed 0-10V pulsed excitation. Half & 1/4 bridge with external bridge completion
	Thermistor	Selected types linearised
Sample Rate	Internal:	32 samples per second
	Plot & Log:	2 Speeds, with change of speed on alarm 8 per second to 4 per day or 9.9cm/min to 0.2cm/day
A/D & Processing	Conversion	12 bit Auto-zeroed at 32 samples/sec/channel
	Processing	Mean, Minimum, Maximum, Spot and Fast (4 samples) acquisition
	Log on Demand	1-9999 samples on trigger
	Synchronisation	Multiple logger triggering with Master-Slave configuration wiring
Scaling & Units	Analogue signal range, alarm levels & plot range can be redefined in user units	
Noise & Drift	Drift	Long-term drift <2µV over 0 - 60°C
	Noise	Typically <2µV at one sample per second; decreasing acquisition time
Overload	Series resistors, no cross-talk to ±15V (±35V optional)	
Digital Channels	16 configurable as Inputs or Outputs	
	Outputs	On alarm internal alarm ± external input ± serial command with config polarity
	Input:	Acquire or as alarm input with config polarity
	Remote	Stop, start, pause
	Trigger	Master trigger output and slave trigger input
Plot/Data Storage	128K, battery backed-up RAM with selectable abandon/overwrite feature if full.	
	Optional RAM	Up to 8Mbytes
	Optional	Via SDX30 RS232 Disk Buffer to current Disk Sizes (2.5" IDE/CF)
Printer Interface	IEEE1284-C, 36pin Centronics	
Serial I/O	RS232 DB9F (Optional USB & Drivers that appear to Windows as standard COM port)	
Display	40x2 transflective LCD display with LED backlight with date, time, current readings, etc	
Keypad	Front panel keypad (selectable timed keylock) for logger operation and setup	
Remote Set-up	Windows based via serial port (NT4.0, 95 and above). No USB on 95 & NT4	
Remote operation	All aspects of logger operation can be controlled via ASCII test via the serial port	
Dimensions/Weight	205 x 70 x 150 mm (W x H x D) / 3kg	
Colour Finish	Water Blue Epoxy Polyester, Full Gloss, Hammer Finish EB021H9H	
Material	Fully Screened Steel and Aluminium	
Min/Max Temp	$0^{o}C/60^{o}C$ (extended - contact Pi Logic)	
Conformity/Class	IT Equipment	
	Safety	EN60950:1992, A1:1993, A2:1993, A3:1995, A4:1997, A11:1997
	Emissions	EN 55 022:1998, A1:2000, Class A Device
	Immunity	EN 55 024:1998
Power	100-240V AC 50/60Hz, 12W Max and/or 10-35V DC @ 3W Max.	

[1] Specification subject to change without notice