

SL7000

Universal Data Logger

**HIGH PERFORMANCE
AND FLEXIBILITY**



The SL7000 is a data logger with a very flexible combination of inputs - from a single temperature input, up to 4 universal inputs combined with an internal temperature and RH, as well as an optional external temperature and RH sensor. All units also feature a digital input which can be used as an event trigger or as a counter input. Powered by its own user-replaceable battery with life in excess of 3 years, the SL7000 can record up to 120,000 readings at intervals from 1 second to 24 hours. It features unprecedented 16-bit accuracy and resolution for all universal inputs, and is competitively priced regardless of the application. An on-board LCD display (optional) shows selected channel information, and integral LED displays provide immediate scanning and alarm status information.

Specification at 20°C

INPUTS

Universal Inputs	<ul style="list-style-type: none"> ● Pt100: 2 or 3 wire °C or °F (BS EN 60751/JIS1604) ● Ni100, Ni120: 2 or 3 wire °C or °F ● Cu10: 2 or 3 wire °C or °F ● Thermocouples J, K, T, R, S, B, N °C or °F ● Thermistor (various types) °C or °F ● (0-20 mA) scaled in engineering units ● +/- 100mV dc scaled in engineering units ● (0-1)V DC scaled in engineering units ● (0-10)V DC scaled in engineering units ● Slidewire scaled in engineering units (100ohm to 10kohm)
Resolutions	All universal inputs 16-bit Internal and External Temperature 12-bit Internal and External RH 8-bit
Counter Input	Used to start logging or as a counter Maximum Count: 65,535 per sample period Maximum Frequency: 32,768 Hz
Start Options	Programmable Delay Period (10 minutes to 1 year) Start on external magnet swipe Start on event trigger
Channel Indicators	8 green LEDs to indicate logging status, changing to red to indicate alarm condition
Comms Indicator	1 yellow LED to indicate comms activity
Sample Rate	1 second to 24 hours for all channels
Display	Optional 3.5 digit LCD with channel indication and low battery warning
Communication Interface	USB isolated (5-pin mini-USB connector)
Sample Method; Selectable	Point Averaging Maximum Minimum

Features

- Universal Inputs
- 1, 2, 3, 4, 5, 6, 7, 8 and 9 channels
- 16-bit resolution
- LCD display option
- User-replaceable battery
- Typical 3 year battery life
- Digital input

Specification (continued)

GENERAL

Memory Size	0 or 2 universal inputs 4 universal inputs	60,000 readings 120,000 readings
Battery Life	Typical 3 years (2,700mAh)	
Ambient Operating Range	-30 to +80°C	
Manifest Text (User)	256 characters	
Manifest Text (Owner)	256 characters	
Alarm Setpoints	Independent High and Low Latching per channel	
Low Battery Warning	Displayed when battery life has less than one month to go	

Non-display version

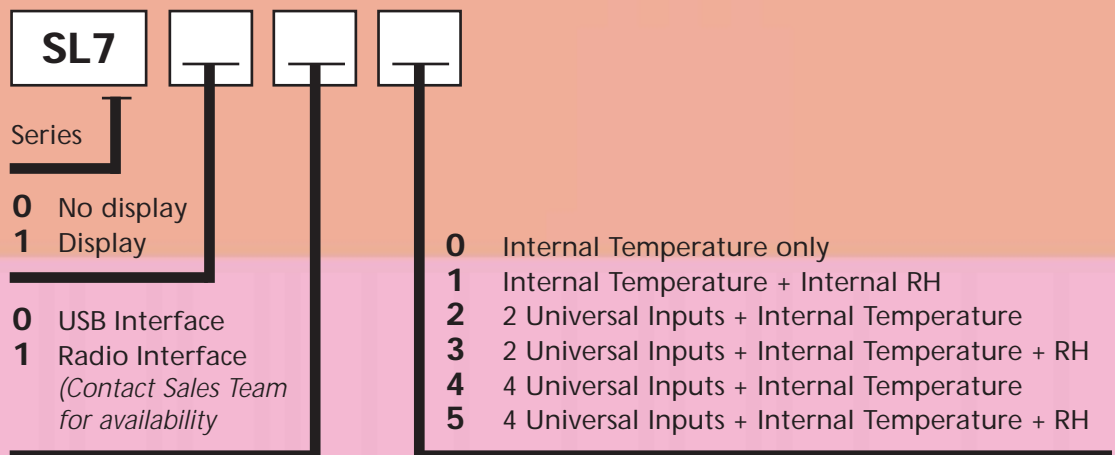


External Temperature / RH Sensor

As an optional extra, the ACC7000-01 provides an additional temperature and RH input. This unit is pre-calibrated, and simply plugs into the base of the main unit.



Order Codes



Accessories

- SL-ACC7000-01 External Temp/RH Probe
- SL-ACC7000-02 Replacement Miniature USB connecting lead
- SL-ACC7000-03 Replacement Lithium Thionyl Chloride Battery
- SL-ACC7000-04 External power supply (cannot be used with ACC7000-01)
- SL-ACC7000-05 Spare 14 way input connector
- TempIT-Lite Operating Software (Free Of Charge)
- TempIT-Pro Upgrade to professional version
- TempIT-HS High Security Version