

DATA LOGGERS

8-Channel Logger

Models DL-1080 & DL-1081

Versatile, powerful and cost effective data loggers handling analog, digital and other types of variables with high resolution and speed



Inputs rated CAT II



SPECIFICATIONS

MODELS	DL-1080 & DL-1081
ELECTRICAL	
Internal Memory	2MB
Power	100 to 240Vac, 50/60Hz. 20VA (Max)
Analog Channels Input Impedance	Thermocouples / Pt100 / Pt1000 / mV: > 2MΩ mA: 15Ω + 1.5V V: 1.1MΩ
Accuracy	Thermocouples J, K, T, E and N: 0.2% of the span ± 1°C Thermocouples R, S and B: 0.2% of the span ± 3°C Pt100, Pt1000, 0 to 20mA, 4 to 20mA, 0 to 20mV, 0 to 50mV, 0 to 60mV, -20 to 20mV, 0 to 5V and 0 to 10V: 0.15% of the span
Excitation Current	Pt100s: 360µA; Pt1000s: 320µA
Maximum Pt100/Pt1000 Compensated Cable Resistance	40Ω
Digital Inputs	Logic level "0": from 0 to 0.8Vdc Logic level "1": from 3 to 30Vdc
Maximum Input Voltage	30Vdc
Input Current @ 30Vdc (typical)	3mA
Digital Outputs	Maximum output voltage: 30Vdc Maximum output current: 200mA Maximum relay current: 3A @ 250Vac; 3A @ 30Vdc
Storage Rate	from 1ms to 24 hours
Maximum Channel Logged	100
Supported Modbus Commands	Read Coil Status (01h) Read Holding Registers (03h) Write Single Coil (05h) Write Single Register (06h) Write Multiple Registers (0Fh)
ENVIRONMENTAL	
Operating Temperature	32° to 122°F (0 to 50°C)
Relative Humidity	80% up to 85°F (30°C) For temperatures higher than 85°F (30°C), decrease 3% per °C
Altitude	< 2000m
Protection	IP20

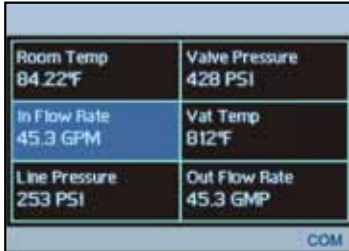
FEATURES

- 8 universal analog input channels
- 8 digital I/Os (individually configured as inputs or outputs)
- 2 relay outputs (NO, NC and common)
- RS485 interface (Modbus master or slave)
- 24Vdc output to power up to eight 4 to 20mA transmitters
- Ethernet interface for LAN and internet use
- USB-device interface for configuring, monitoring and download
- USB-host interface for logged data retrieval through a USB flash drive
- Up to 32 configurable alarms
- Up to 128 virtual channels
- Detachable display (optional)
- Up to 100 channels can be logged at a configurable rate
- Data downloading through the configuration software or through the freely distributed download DLL
- 4 input channel types: analog, digital, remoted and virtual

Color Functional

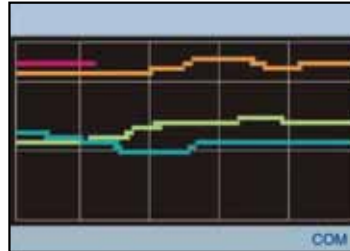
Displays

"FAVORITES" Screen



Shows a six-position grid where you can assign a channel to be displayed real-time in each position.

"CHART" Screen



Displays a plot of the favorite channels values.

"CHANNEL LIST" Screen



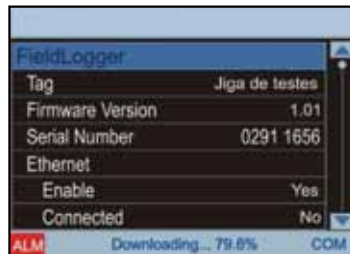
Shows a list of all enabled channels (analog, digital, remote and virtual).

"ALARMS" Screen



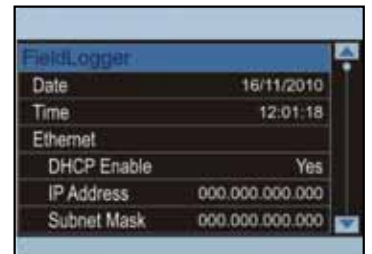
A 32-position grid where each numbered position is related to its equivalent alarm or event. When an alarm is active, its number will be displayed in red on this screen.

"STATUS" Screen



Shows a list of information about the data logger and the display itself.

"CONFIGURATION" Screen



Data logger and display parameters can be changed and viewed on this screen.



▶ PRODUCT INCLUDES

▶ DL-1080 & DL-1081 software

User manual and drivers also available on CD

CATALOG NO.

DESCRIPTION

2134.61	Data Logger Model DL-1080 (8-channel, no LCD)
2134.62	Data Logger Model DL-1081 (8-channel, LCD)



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