

DATA LOGGERS

8 to 16 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

NEW!

SPECIFICATIONS

| MODELS | DL-1080 & DL-1081 | |
|--|--|---------------------|
| ELECTRICAL | | |
| Input Type | Measuring Range: | Accuracy: |
| J | -184° to 1832°F (-120 to 1000°C) | ± 0.2% (F.R.) ± 1°C |
| K | -202° to 2501.6°F (-130 to 1372°C) | |
| T | -202° to 752°F (-130 to 400°C) | |
| E | -202° to 1436°F (-130 a 780°C) | |
| N | -202° to 2372°F (-130 to 1300°C) | |
| R | 68° to 3214.4°F (20 to 1768°C) | ± 0.2% (F.R.) ± 3°C |
| S | 68° to 3214.4°F (20 to 1768°C) | |
| B | 212° to 3308°F (100 to 1820°C) | |
| Pt100 | -328° to 1562°F (-200 to 850°C) | ± 0.15% (F.R.) |
| Pt1000 | -328° to 1562°F (-200 to 850°C) | |
| Linear 0 to 20mA | User Programmable | ± 0.15% (F.R.)* |
| Linear 4 to 20mA | | |
| Linear 0 to 20mV | | |
| Linear 0 to 50mV | | |
| Linear 0 to 60mV | | |
| Linear -20 to 20mV | | |
| Linear 0 to 5V | | |
| Linear 0 to 10V | | |
| Digital Inputs | Logic level "0": from 0 to 0.8Vdc Logic level "1": from 3 to 30Vdc | |
| Internal Memory | 2MB | |
| Excitation Current | Pt100s: 360µA; ; Pt1000s: 320µA | |
| Maximum Pt100/Pt1000 Compensated Cable Resistance | 40Ω | |
| 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) | |
| Power Supply | 100 to 240Vac, 50/60Hz. 20VA (max) | |
| 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 | |

F.R. = Full Range = Span

*The full scale refers to the input of the sensor signal and not the range of configured indication.



Inputs rated CAT II



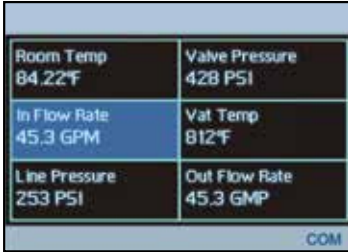
FEATURES

- 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
- 16GB SD card interface

Model DL-1081

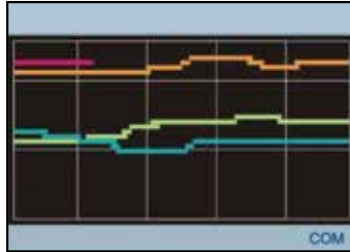
Color Functional Displays

"FAVORITES" Screen



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

"CHART" Screen

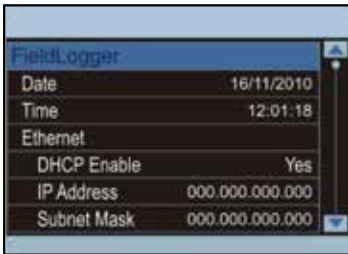


Displays a plot of the favorite channels values.

Software Screens



"CONFIGURATION" Screen



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

"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.



▶ PRODUCT INCLUDES

▶ DL-1080 & DL-1081 software

User manual and drivers also available on USB stick



| CATALOG NO. | DESCRIPTION |
|-------------|---|
| 2134.61 | Data Logger Model DL-1080 (8 Analog to 8 Digital Channel, no LCD) |
| 2134.62 | Data Logger Model DL-1081 (8 Analog to 8 Digital Channel, LCD) |

