

DATA LOGGERS

SIMPLE LOGGER® II TRMS CLAMP-ON CURRENT

MODEL CL601

Designed for plant and field service applications and for use in harsh environments

SPECIFICATIONS

| MODEL | CL601 |
|-----------------------|--|
| ELECTRICAL | |
| Channels | One |
| Input | Split CT – AC Current |
| Measurement Range | 0 to 600Aac |
| Resolution | 0.1A |
| Accuracy (50/60Hz) | 0 to 5A: unspecified 5 to 50A: ±(1% of Reading + 1A) 50 to 400A: ±(1% of Reading + 0.5A) 400 to 600A: ±(3% of Reading + 1A) |
| Sample Rate | 64 samples/cycle |
| Storage Rate | Programmable from 8 every second to 1 every day |
| Storage Modes | Start/Stop, FIFO, Extended Recording Mode (XRM™)* and Alarm |
| Recording Length | 15 minutes to 8 weeks, programmable using DataView® |
| Memory | 240,000 measurements (512KB) - The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed |
| Communication | USB 2.0 optically isolated |
| Power Source | 2 x 1.5V AA-cell alkaline batteries (included) |
| Battery Life | 100 hours to >45 days (dependent on sample rate and recording length) |
| MECHANICAL | |
| Dimensions | 9.25 x 4.0 x 1.63" (235 x 102 x 41mm) |
| Max Conductor Size | 1 conductor - Ø 1.42" (36mm) 2 conductor s- Ø 1.00" (25mm) each |
| Weight (with battery) | 17.1oz (485g) |
| Case | UL94-V0 |
| Vibration | IEC 68-2-6 (1.5mm, 10 to 55Hz) |
| Shock | IEC 68-2-27 (30G) |
| Drop | IEC 68-2-32 (1m) |

Consult factory for NIST Calibration prices

*EXTENDED RECORDING MODE (XRM™)

This unique recording mode provides the opportunity to continuously record over long periods of time by reducing the stored samples of the oldest data and maintaining matching resolution for the newest data. Each time the memory fills up using XRM™ every other of the oldest stored samples is discarded making room for newer samples. This process continues until the recording is manually stopped.

PRODUCT INCLUDES

Soft carrying case, set of (2) color-coded (red/black) silicone insulated test leads, test probes and alligator clips, K-thermocouple with 4mm integrated adapter, (4) 1.5V AA batteries and a user manual.



DataView®

FEATURES

- 0 to 600Arms
- True RMS measurements
- Self contained, no exposed connections
- Overload indication
- Optically isolated USB 2.0 communication cable included
- One button operation
- Alarm function
- 5 LED indicators quickly and clearly display logger status
- Powered by standard alkaline batteries
- Includes FREE DataView® software for data retrieval, real-time display, analysis and report generation
- EN 61010-1; 300V CAT IV, 600V CAT III

APPLICATIONS

- Machine load monitoring
- HVAC troubleshooting
- Load profiling
- Electrical troubleshooting
- Start-Stop time stamping

| CATALOG NO. | DESCRIPTION |
|-------------|--|
| 2126.01 | Simple Logger® II Model CL601 (1-Channel, TRMS, Clamp-on, 0 to 600Aac, DataView® Software) |

DATA LOGGERS

SIMPLE LOGGER® II

600VAC/DC MODEL L261

One channel loggers for voltage measuring, monitoring and troubleshooting

SPECIFICATIONS

| MODELS | L261 |
|-----------------------|--|
| ELECTRICAL | |
| Channels | One |
| Input Connection | Two recessed 4mm safety banana jacks |
| Measurement Range | 0 to 600VAc/dc |
| Resolution | 0.1V |
| Accuracy (50/60Hz) | 0 to 5V: unspecified 5 to 50V: ±(0.5% of Reading + 1V) 50 to 600V: ±(0.5% of Reading + 0.5V) |
| Input Impedance | 40MΩ |
| Sample Rate | 64 samples/cycle |
| Storage Rate | Programmable from 8 every second to 1 every day |
| Storage Modes | Start/Stop, FIFO, Extended Recording Mode (XRM™) and Alarm |
| Recording Length | 15 minutes to 8 weeks, programmable using DataView® |
| Memory | 240,000 measurements (512KB) The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed. |
| Communication | USB 2.0 optically isolated |
| Power Source | 2 x 1.5V AA-cell alkaline batteries (included) |
| Battery Life | 100 hours to >45 days (dependent on sample rate and recording length) |
| MECHANICAL | |
| Dimensions | 4.94 x 2.75 x 1.28" (125 x 70 x 32mm) |
| Weight (with battery) | 6.4oz (181g) |
| Case | UL94-V0 |
| Vibration | IEC 68-2-6 (1.5mm, 10 to 55Hz) |
| Shock | IEC 68-2-27 (30G) |
| Drop | IEC 68-2-32 (1m) |

Consult factory for NIST Calibration prices

PRODUCT INCLUDES

USB cable, (1) set of color-coded (red/black) leads and alligator clips and a thumb drive with DataView® software.



DataView®

FEATURES

- TRMS voltage recording up to 600VAc/dc
- AC: 64 samples per cycle and DC: 8 samples per second
- Programmable storage rates from 8 every second to 1 every day
- 4 user selectable storage modes
- Stores up to 240,000 measurements in non-volatile memory
- Powered by standard alkaline batteries
- Lightweight, compact, fits anywhere
- 5 LED indicators quickly and clearly display logger status
- Includes FREE DataView® software for data retrieval, real-time display, analysis and report generation
- Optically isolated USB 2.0 communication cable included
- EN 61010-1; 300V CAT IV; 600V CAT III

APPLICATIONS

- Surge and Sag recording
- Long term supply monitoring
- Industrial, commercial and residential monitoring
- Monitor voltage harmonics
- Find intermittent voltage problems
- Machine monitoring

| CATALOG NO. | DESCRIPTION |
|-------------|---|
| 2126.05 | Simple Logger® II Model L261 (1-Channel, TRMS, 600VAc/dc, DataView® Software) |



DATA LOGGERS

SIMPLE LOGGER® II TRMS VOLTAGE & CURRENT

MODEL L562

Two input channel logger capable of recording Arms, Vrms and VA

SPECIFICATIONS

| | | |
|-----------------------|---|---|
| MODEL | L562 | |
| ELECTRICAL | | |
| Channels | Two | |
| Connection | Current Channel | Voltage Channel |
| Input Connection | BNC | Two recessed banana jacks |
| Input Range | 0 to 1V _{AC} (for use with current probes with a voltage output) | 0 to 600V _{AC} |
| Resolution | 0.1mV | 0.1V |
| Accuracy (50/60Hz) | 0 to 10mV unspecified 10 to 50mV: ±(0.5% of Reading + 1mV) 50 to 1000mV: ±(0.5% of Reading + 0.5mV) | 0 to 5V unspecified 5 to 50V: ±(0.5% of Reading + 1V) 50 to 600V: ±(0.5% of Reading + 0.5V) |
| Input Impedance | 800kΩ | 40MΩ |
| Maximum Input Voltage | 5V _{rms} or ±7.07V peak | 1.2 x 600V |
| Sample Rate | 64 samples/cycle | |
| Storage Rate | Programmable from 8 every second to 1 every day | |
| Storage Modes | Start/Stop, FIFO, Extended Recording Mode (XRM™) and Alarm | |
| Recording Length | 15 minutes to 8 weeks, programmable using DataView® | |
| Memory | 240,000 measurement (512KB). The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed. | |
| Communication | USB 2.0 optically isolated | |
| Power Source | 2 x 1.5V AA-cell alkaline batteries (included) | |
| Battery Life | 100 hours to > 45 days (dependent on sample rate and recording length) | |
| MECHANICAL | | |
| Dimensions | 5.38 x 2.75 x 1.28" (136 x 70 x 32mm) | |
| Weight (with battery) | 6.4oz (181g) | |
| Case | UL94-V0 | |
| Vibration | IEC 68-2-6 (1.5mm, 10 to 55Hz) | |
| Shock | IEC 68-2-27 (30G) | |
| Drop | IEC 68-2-32 (1m) | |

Consult factory for NIST Calibration prices

| PROBE MODEL NUMBER | CATALOG NUMBER | PROBE OUTPUT | PROBE RANGE | MAX RANGE FOR SLII | CABLE DIAMETER | BUS BAR SIZE | OUTPUT CONNECTION |
|--------------------|----------------|----------------------------|--------------------------|--------------------|----------------|--------------|-------------------|
| MN261 | 2115.82 | 100mV/A / 10mV/A | 0.1 to 24A / 0.5 to 240A | 10A / 100A | 0.78" (19.8mm) | N/A | Lead w/BNC |
| MN379T | 2153.02 | 200mV/A / 10mV/A | 5A / 100A | | 0.78" (19.8mm) | N/A | Lead w/BNC |
| SR661 | 2113.49 | 1mV/A 10mV/A 100mV/A | 1000A 100A 10A | | 2.13" (54.1mm) | N/A | Lead w/BNC |

SEE PAGE 32 FOR MORE COMPATIBLE CURRENT PROBES (SOLD SEPARATELY)

| CATALOG NO. | DESCRIPTION |
|-------------|---|
| 2126.35 | Simple Logger® II Model L562 (2-Channel, TRMS, Voltage & Current, DataView® Software) |



FEATURES

- 2 input channels
- Voltage: 0 to 600V_{AC} TRMS
- Current: compatible with voltage output AC current probes with voltage outputs (see page 32 - sold separately)
- 64 samples per cycle
- Records Arms, Vrms & VA (VA displays in DataView® software)
- 4 user selectable storage modes
- Programmable storage rates from 8 every second to 1 every day
- Stores up to 240,000 measurements in non-volatile memory
- Powered by standard alkaline batteries
- 5 LED indicators quickly and clearly display logger status
- Includes FREE DataView® software for data retrieval, real-time display, analysis and report generation
- Optically isolated USB 2.0 communication cable included
- Complies with EN 61010-1; 300V CAT IV; 600V CAT III (a safety rated current probe is required)

APPLICATIONS

- Single phase power monitoring
- Residential, commercial, industrial, troubleshooting
- Find sags and surges / track energy usage
- Start-Stop time stamping

PRODUCT INCLUDES

Set of color-coded (red/black) 5 ft voltage leads and alligator clips, USB cable, (2) 1.5V AA batteries, printed quick start guide, USB drive with DataView® software.



DATA LOGGERS

SIMPLE LOGGER® II TRMS CURRENT

MINIFLEX® MODEL ML912

AC current recording loggers incorporate two selectable measurement ranges



ML912

SPECIFICATIONS

| MODEL | ML912 |
|-----------------------|--|
| ELECTRICAL | |
| Channels | Two |
| Input | Captive MiniFlex® AC Current Flexible Sensors |
| Range | 1 to 100Aac 5 to 1000Aac |
| Accuracy (50/60Hz) | |
| (100A Range) | 0 to 1A unspecified 1 to 100A: ±(1% of Reading + 0.5A) |
| (1000A Range) | 0 to 5A unspecified 5 to 1000A: ±(1% of Reading + 1A) |
| Resolution | 0.1A |
| Sample Rate | 64 samples/cycle |
| Storage Rate | Programmable from 8 every second to 1 every day |
| Storage Modes | Start/Stop, FIFO, Extended Recording Mode (XRM™) and Alarm |
| Recording Length | 15 minutes to 8 weeks, programmable using DataView® |
| Memory | 240,000 measurement (512KB) The recorded data is stored in non-volatile memory and will be retained even if the battery is low or removed |
| Communication | USB 2.0 optically isolated |
| Power Source | 2 x 1.5V AA-cell alkaline batteries (included) |
| Battery Life | 100 hrs to >45 days (dependent on storage rate/recording length) |
| MECHANICAL | |
| Dimensions | 4.95 x 2.75 x 1.28" (136 x 70 x 32mm) w/o Sensor |
| Max Conductor Size | Sensor: 6" (152mm) |
| Cable Length | 6 ft (2m) |
| Weight (with battery) | 8.67oz (245g) |
| Case | UL94-V0 |
| Vibration | IEC 68-2-6 (1.5mm, 10 to 55Hz) |
| Shock | IEC 68-2-27 (30G) |
| Drop | IEC 68-2-32 (1m) |

Consult factory for NIST Calibration prices

APPLICATIONS

- Single and Split phase load monitoring
- Neutral and ground current monitoring
- Intermittent problem detection
- Harmonic current monitoring using DataView® software
- Machine load monitoring
- Fault current detection
- Load profiling



DataView®

FEATURES

- Includes two or four integral MiniFlex® flexible current probes that will measure from 1A to 1000A TRMS with 0.1A resolution
- Dual range 100/1000A user selectable per channel in software
- 64 samples per cycle
- Programmable storage rates from 8 every second to 1 every day
- 4 user selectable storage modes
- ML912 stores up to 240,000 measurements in non-volatile memory
- Powered by standard alkaline batteries
- Lightweight, compact, fits anywhere
- 5 LED indicators quickly and clearly display logger status
- Includes FREE DataView® software for data retrieval, real-time display, analysis and report generation
- Optically isolated USB 2.0 communication cable included
- EN 61010-1; 600V CAT IV, 1000V CAT III

PRODUCT INCLUDES

Includes USB cable, DataView® software, (2) 1.5V AA batteries and quick start guide.

| CATALOG NO. | DESCRIPTION |
|-------------|---|
| 2126.37 | Simple Logger® II Model ML912 (2-Channel, TRMS, MiniFlex®, 100/1000Aac, DataView® Software) |



DATA LOGGERS

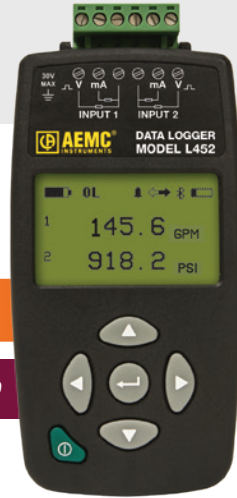
TWO-CHANNEL DC VOLTAGE, CURRENT, PULSE & EVENT

MODEL L452

Bluetooth-enabled logger and event counter that records DC voltage, DC current, 4 to 20mA or pulse counts

Real-time display!

Powered by batteries or through a USB cable



DataView®

SPECIFICATIONS

| | | | | |
|-------------------------|---|------------------|--------------|---------------|
| MODEL | L452 | | | |
| ELECTRICAL | | | | |
| Channels | Two* | | | |
| Input | Six-pin terminal strip | | | |
| Measurements | DC Current | DC Voltage | Event | Pulse |
| Range | 4 to 20mA | 100mV, 1V, 10V | | N/A |
| Accuracy (% of Reading) | ±(0.25% + 5cts) | ±(0.5% + 1ct) | | N/A |
| Resolution | 0.01mA | 0.1mV, 1mV, 10mV | | N/A |
| Input Impedance | 100Ω | 1MΩ | | N/A |
| Sample Rate | 5 samples/s | | 16 samples/s | 100 samples/s |
| Sample Period | DC inputs: 200, 400, 600, or 800ms; or from 1 to 60 seconds Pulse detection: 10ms | | | |
| Storage Modes | Start/Stop (ends when memory is full or when the recording stop time is reached, whichever comes first) | | | |
| Recording Length | 10 minutes to 1 year, set via instrument front panel or through DataView® | | | |
| Memory | 32MB internal Flash memory (up to 1024 logging sessions, 16M samples) | | | |
| Communication | Bluetooth 2.1, Class 1 or USB 2.0 | | | |
| Power Source | External: via USB connector Internal: 2 x AA NiMH rechargeable batteries (charges through USB port) | | | |
| Battery Life | Up to 180 days (dependent on storage rate/recording length) | | | |
| MECHANICAL | | | | |
| Dimensions | 1.275 x 2.578 x 5.413" (32.4 x 65.5 x 137.5mm) | | | |
| Weight (with battery) | 6.7oz (190g) with batteries | | | |
| Vibration | IEC 68-2-6 (1.5mm, 10 to 55Hz) | | | |
| Shock | IEC 68-2-27 (30G) | | | |
| ENVIRONMENTAL | | | | |
| Operating Temperature | 32° to 122°F (0° to 50°C) | | | |
| Humidity | 16 to 85% | | | |
| Ingress Protection | IP40 (instrument alone); IP20 (instrument with terminal strip) | | | |

*Both channels must have the same input type.
Consult factory for NIST Calibration prices

PRODUCT INCLUDES

6 ft USB cable, US 120V wall-to-USB plug, 6-pin screw terminal block, (2) AA rechargeable NiMH batteries, a printed quick start guide, a USB drive containing DataView® software and a user manual.



DATA LOGGERS

TWO-CHANNEL DC VOLTAGE, CURRENT, PULSE & EVENT

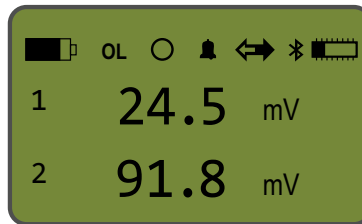
FEATURES

- Multiple data input types. The L452 can log DC voltage, DC current, 4 to 20mA, pulse counts, or events. Measurements can be performed directly on the instrument, or through a variety of sensors. This data is stored in the instrument's large 32MB internal Flash memory.
- Expanded user interface. You can set up the instrument and view real-time measurement data through the front panel LCD screen and input buttons. The L452 features an on-board menu-based interface for navigating measurement data and selecting configuration options.
- Enhanced DataView® support. The instrument connects to a PC using either Bluetooth or USB. Once connected, logged data can be downloaded, analyzed, and formatted into reports using DataView's Data Logger Control Panel. This Control Panel also enables users to change settings on the instrument, view real-time measurements, schedule recording sessions, and perform other configuration tasks.

FRONT PANEL & FUNCTIONAL DISPLAYS

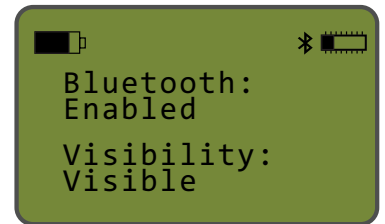


INSTRUMENT CONFIGURATION



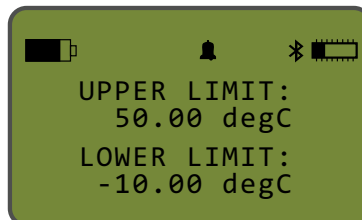
Instrument configuration parameters can be set through the front panel interface

BLUETOOTH ENABLED/VISIBILITY



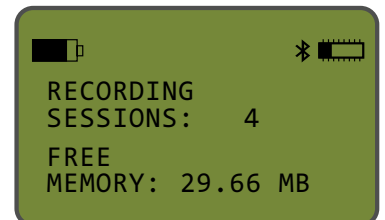
Enable and configure Bluetooth's functionality

ALARM TRIGGERS



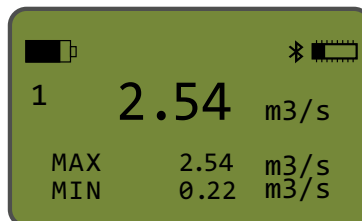
Allows you to set the upper and/or lower alarm trigger limits

RECORDING SESSION



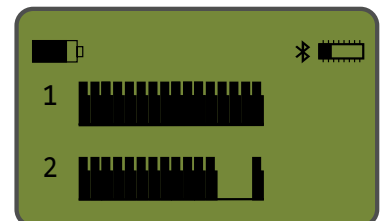
Displays the number of recording sessions currently stored in memory. It also shows the amount of free memory left for storing additional recording sessions

MIN/MAX MEASUREMENTS



For analog input types, this screen displays the session's MIN/MAX measurement values for each channel

EVENT MEASUREMENT DATA



For event input, the Channels 1 & 2 measurement graphic data screen appears

CATALOG NO.

2153.51

DESCRIPTION

Data Logger Model L452 (2-Channel, w/LCD, 100mV/1V/10Vdc, 4 to 20mA, Event & Pulse, DataView® Software)



DATA LOGGERS

8 TO 16 CHANNEL LOGGER

MODELS DL-1080 & DL-1081

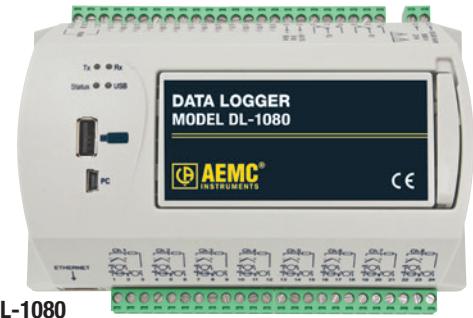
Versatile, powerful and cost effective data loggers handling analog, digital and other types of variables with high resolution and speed

SPECIFICATIONS

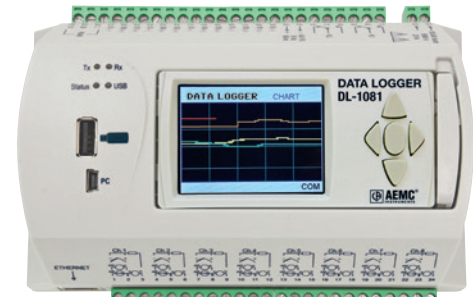
| MODELS | DL-1080 & DL-1081 | | | |
|--|--|-------------------|---|--|
| ELECTRICAL | | | | |
| Input Type | Measuring Range: | Accuracy: | | |
| J | -184° to 1832°F (-120° to 1000°C) | ±0.2% (F.R.) ±1°C | | |
| K | -202° to 2501.6°F (-130° to 1372°C) | | | |
| T | -202° to 752°F (-130° to 400°C) | | | |
| E | -202° to 1436°F (-130° to 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) | ±0.15% (F.R.) | | |
| Pt100 | -328° to 1562°F (-200° to 850°C) | | | |
| 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 | | | |
| Ingress Protection | IP20 | | | |

F.R. = Full Range

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



DL-1080



DL-1081

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
- Includes FREE software for data retrieval, real-time display, analysis and report generation
- 4 input channel types: analog, digital, remote and virtual
- Up to 16GB SD card interface

DATA LOGGERS

8 TO 16 CHANNEL LOGGER

MODEL DL-1081

Color Functional Displays

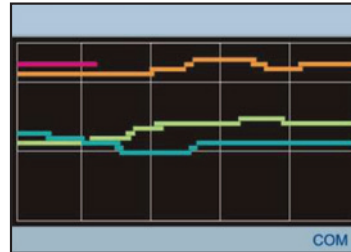
"FAVORITES" SCREEN

| | |
|--------------------------|---------------------------|
| Room Temp 84.22°F | Valve Pressure 428 PSI |
| In Flow Rate 45.3 GPM | Vat Temp 812°F |
| Line Pressure 253 PSI | Out Flow Rate 45.3 GMP |

COM

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

"CONFIGURATION" SCREEN

| | |
|-------------|-----------------|
| FieldLogger | |
| Date | 16/11/2010 |
| Time | 12:01:18 |
| Ethernet | |
| DHCP Enable | Yes |
| IP Address | 000.000.000.000 |
| Subnet Mask | 000.000.000.000 |

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

"ALARMS" SCREEN

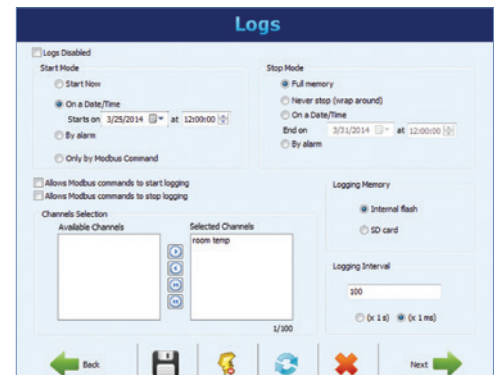
| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |

ALM COM

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



SOFTWARE SCREENS



PRODUCTS INCLUDE

DL-1080, DL-1081:
Mini USB cable, printed quick start guide and a USB drive with software, drivers and a user manual.



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



DATA LOGGERS

SIMPLE LOGGER® DATA LOGGERS

MODELS SL01 TO SL13

Small AC and DC simple loggers can be ready to go in minutes with just a few parameters to set up

MODELS SL20 & SL50

Log DC Current and Temperature



SL01

SL11

SL13

SL50

SPECIFICATIONS

| MODELS | SL01 | SL10 | SL11 | SL12 | SL13 |
|------------------------------|---|------------------------------|----------------------------|-----------------------------|------------------------------|
| VOLTAGE | | | | | |
| Range | 0 to 5 V _{AC} | ±100 mV _{DC} | ±1 V _{DC} | ±10 V _{DC} | ±50 V _{DC} |
| Resolution | 10 mV | 0.1 mV | 1 mV | 10 mV | 50 mV |
| Accuracy | ±(0.5% of Reading + 50 mV)* | ±(0.5% of Reading + 0.5 mV)* | ±(0.5% of Reading + 5 mV)* | ±(0.5% of Reading + 50 mV)* | ±(0.5% of Reading + 250 mV)* |
| Maximum Input Voltage | 60 V _{DC} | | | | |
| Input Impedance | 800 KΩ | | | | |
| Power Source | Internal: Two 1.5 V AA non-rechargeable batteries External: USB 2.0 (computer or other USB power source) | | | | |
| Power Consumption | Internal power: 1 mA (average) / External power: 100 mW | | | | |

*Accuracy is specified with the 10-point filter selected to reduce noise.



FEATURES

- Simple one button operation
- Quick two wire input connection
- User configurable scaling, units of measure and recording length
- Stores up to 4 million measurements
- Data analysis software included
- Software provides real-time trend graph display, data download, analysis and report generation
- Micro-B USB cable included

SPECIFICATIONS

| MODELS | SL20 | SL50 | | | | | | | |
|--------------------------|--|---|---------------------------------|---------------------------------|-------------------------------|---------------------------------|---|---|--|
| | | Thermocouple Type: | | | | | | | |
| | | J | K | N | T | E | R | S | |
| | CURRENT | TEMPERATURE | | | | | | | |
| Range | ±20 mA | -346 to 2192°F (-210 to 1200°C) | -328 to 2502°F (-200 to 1372°C) | -328 to 2372°F (-200 to 1300°C) | -328 to 752°F (-200 to 400°C) | -328 to 1832°F (-200 to 1000°C) | 32 to 3200°F (0 to 1760°C) | | |
| | 0.02 mA | 0.1°C | | | | | | | |
| Accuracy | ±(0.5% of Reading + 0.1 mA)* | Below -148°F (-100°C): ±(0.4% of Reading + 9°F [5°C])* | | | | | 32 to 212°F (0° to +100°C): ±(0.3% of Reading + 18°F [10°C])* | | |
| | | -148 to 212°F (-100° to 100°C): ±(0.3% of Reading + 7.2°F [4°C])* | | | | | | | |
| | | Above 212°F (100°C): ±(0.2% of Reading + 5.4°F [3°C])* | | | | | Above 212°F (100°C): ±(0.2% of Reading + 14°F [8°C])* | | |
| Maximum Input | 25 mA _{DC} | 1 V | | | | | | | |
| Input Impedance | 49 Ω | 800 KΩ | | | | | | | |
| Power Source | Internal: Two 1.5 V AA non-rechargeable batteries External: USB 2.0 (computer or other power source, when powered by the USB the battery is automatically disconnected) | | | | | | | | |
| Power Consumption | Internal power: 1 mA (average) / External power: 100 mW | | | | | | | | |

*Accuracy is specified with the 10-point filter selected to reduce noise.

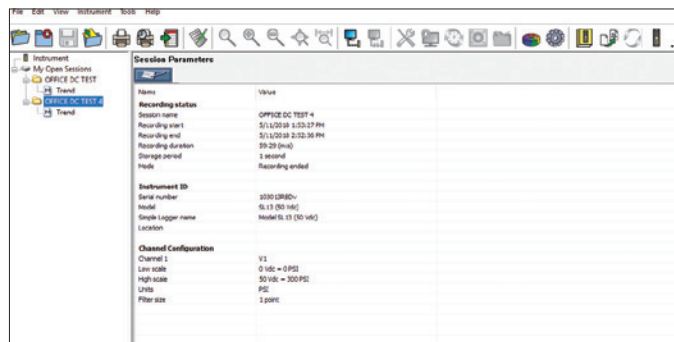
DATA LOGGERS

SIMPLE LOGGER® DATA LOGGERS

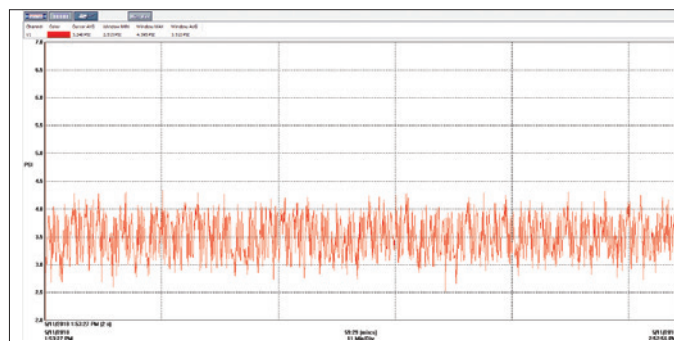
SIMPLE LOGGER CONTROL PANEL

The Simple Logger Control Panel allows you to configure how data measured by these instruments is recorded and displayed. The available settings depend on which model is connected to the computer. The following table shows which configuration options are available for each model.

| FEATURE | SL01 | SL10 | SL11 | SL12 | SL13 | SL20 | SL50 |
|----------------------------|------|------|------|------|------|------|------|
| Set up recording | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Define units | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Set instrument clock | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Erase instrument memory | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Scaling | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Filtering | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thermocouple type | | | | | | | ✓ |
| Cold Junction Compensation | | | | | | | ✓ |
| Rising/Falling events | | | | | | | |



Shows the current configuration of the logger



Typical real-time trend graph

| CATALOG NO. | DESCRIPTION |
|-------------|---|
| 2156.01 | Simple Logger® Model SL01 (Low Voltage, 5 VAC) |
| 2156.10 | Simple Logger® Model SL10 (Voltage, 100mVDC) |
| 2156.11 | Simple Logger® Model SL11 (Voltage, 1 VDC) |
| 2156.12 | Simple Logger® Model SL12 (Voltage, 10 VDC) |
| 2156.13 | Simple Logger® Model SL13 (Voltage, 50 VDC) |
| 2156.20 | Simple Logger® Model SL20 (Current, 4 to 20 mAac) |
| 2156.50 | Simple Logger® Model SL50 (Temperature, Thermocouple) |