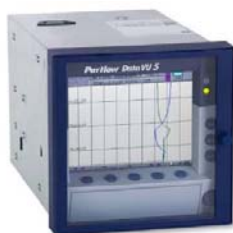


West Paperless Recorder

- 5.5" color TFT display
- Strip chart, bargraph & numerical data formats
- 3 or 6 analog inputs
- 4 logic inputs, 3 relay outputs
- Non-volatile flash memory
- RS485 & Ethernet communication
- 144 DIN case with IP54/IP65 front
- Math & web server options
- Setup, comm & evaluation software



DataVU5

SPECIFICATIONS

| | |
|------------------------|---|
| Inputs: | |
| T/C | J, K, T, R, S, E, N, B, L, U, D, C, Chromel-Copel |
| RTD | Pt100/50/500/1000, Ni100, Cu50/100 2, 3 or 4 wire |
| DC | mV: user settable -20mV to +210mV V: user settable -10V to +12V mA: user settable from -22mA to +22mA |
| Basic Accuracy: | |
| T/C | ±0.1% of range (±1°C cold junction) |
| RTD | ±0.5°C |
| DC | ±0.1% of range |
| Sampling Cycle: | 250ms, 3 or 6 channels |
| Input Isolation: | 350V via optocoupler |
| Resolution: | >14 bits |
| Triggers: | Normal, time & event |
| Internal Channels: | Six, 9 digit, for count, intergration & trigger |
| Relay Outputs: | Three SPDT, 3A@230VAC |
| Digital Inputs: | Four binary, logic "1" =12-30V |
| Communications | Front panel setup interface standard |
| Options: | RS485 (Modbus RTU), Ethernet (Modbus TCP) |
| Display: | 320x240 color TFT |
| Internal Memory: | Flash storage of 350,000 measurements |
| External Memory: | Compact flash card, 2GB max |
| Math Module: | +, -, *, /, SQRT, min, max, sin, cos, tan ,exp, ABS, INT, FRC, LOG, LN, humidity, moving avg, !, &, , ^ |
| Temperature: | 0-50°C operating |
| Dimensions: | 144 x 144 x 214mm depth, including connectors |

ORDERING INFORMATION

To Order, Insert Code for Each Letter to Select Catalog Number.

Example VU5-3-0-0-3-3 VU5 - - - - -

| | |
|----------|---|
| A | Inputs |
| 3 | 3 universal channels |
| 6 | 6 universal channels |
| B | Power Supply |
| 0 | 110-240V AC, 48-63Hz, 25VA |
| 1 | 20-53V AC/DC, 48-63Hz |
| C | Option 1 |
| 0 | Lithium battery for memory |
| 1 | Lithium battery & Ethernet interface |
| D | Option 2 |
| 0 | None |
| 1 | Math function module |
| 2 | 4 digital inputs / 3 relay out & RS232/485 |
| 3 | Math functions + 4 digital inputs / 3 relay out & RS232/485 |
| E | Option 3 |
| 0 | None |
| 1 | IP65 front seal with wide mounting brackets |

Hioki Data Loggers

LR5001



- Easy-to-see dual display
- Store 60,000 readings per channel
- Replace batteries & transfer data while recording
- STAT mode captures fluctuations between samples
- Small size fits in tight spaces
- IP54 splashproof case (except LR5051)
- Free data analysis software

SPECIFICATIONS

| Model | Range | Accuracy (@23±5°C) |
|------------------|--|--|
| LR5001 | 0-100% RH, -40 to 85°C | ±6% RH (0-50%RH & 0-50°C) ±8% RH (50-70%RH & 0-50°C) ±1°C from -40 to 70°C ±2°C from 70 to 85°C |
| LR5011 | Determined by sensor | ±1°C from -40 to 70°C ±2°C from 70 to 120°C ±5°C from 120 to 180°C |
| LR5031 | 0-20mA DC | ±0.5% of rdg ±5 dgts |
| LR5041 | -50.00mV to 50.00mV DC | ±0.5% of rdg ±5 dgts |
| LR5042 | -5.000V to 5.000V DC | ±0.5% of rdg ±5 dgts |
| LR5043 | -50.00V to 50.00V DC | ±0.5% of rdg ±5 dgts |
| LR5051 | Determined by sensor | ±0.5% of rdg ±5 dgts + clamp-on sensor accuracy (45-66Hz) |
| Clamp-on: | CATIII 600V (300V for 9675) | ±1.0% of rdg ±0.03% fs |
| General: | | |
| Record Interval: | 1/2/5/10/20/30 sec, 1/2/5/10/15/20/30/60 min | |
| Record Methods: | One time, Looping | |
| Record Modes: | Instantaneous, Statistical | |
| Start/Stop: | Manual, Timer | |
| Display Items: | Measured value, Interval configuration, Date, Time, Alarm, Remaining battery, Number of data, Max data, Min data | |
| Power: | AA alkaline battery | |
| Dimensions: | 3.2"W x 2.8"H x 1.5"D max (79x70x37mm) | |
| Environment: | -20°C to 70°C (0°C to 50°C for LR5051), <80% RH | |

Use the LR5000 Utility program to import stored data to a PC, analyze data and graph up to 16 channels. Easily print results, save data and save configuration settings. Data processing functions include scaling, power calculation, energy cost calculation, operating ratio calculation, integration, dew point temperature, calculation between channels. Compatible with Win XP, Vista, Win 7.

ORDERING INFORMATION

| | |
|---------------------|--|
| HK/LR5001 | Temperature/Humidity Logger w/ LR9504 Sensor |
| HK/LR5011 | Temperature Logger (order sensor separately) |
| HK/LR5031 | 0-20mA Instrumentation Logger w/ 1m cable |
| HK/LR5041 | -50.00mV to 50.00mV DC Voltage Logger w/ 1m cable |
| HK/LR5042 | -5.000V to 5.000V DC Voltage Logger w/ 1m cable |
| HK/LR5043 | -50.00V to 50.00V DC Voltage Logger w/ 1m cable |
| HK/LR5051 | 2 Channel AC Current Logger (order sensors separately) |
| Accessories: | |
| HK/LR9501 | Humidity Sensor, 0-100% RH, -40 to 85°C * |
| HK/LR9601 | Molded Temperature Sensor, -40 to 180°C * |
| HK/LR9612 | Lug type Temperature Sensor, -30 to 180°C * |
| HK/LR9621 | SS304 Sheath Temperature Sensor, -40 to 120°C * |
| HK/LR9631 | SS304 Needle Temperature Sensor, -40 to 120°C * |
| HK/9669 | 1000A AC Clamp-on Sensor (55mm jaw opening) ** |
| HK/CT6500 | 50/500A AC Clamp-on Sensor (46mm opening) ** |
| HK/9675 | 500mA/5A AC Clamp-on Sensor (30mm opening) ** |
| HK/Z5004 | Magnetic Mounting Strap |
| HK/LR9901 | Wall-mounted Holder |
| HK/LR5091 | Infrared Communication Adapter for USB data transfer to PC |

*1m cable standard, longer cables available

**3m cable