IPElog2

Metromatics

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High Performance Data Logger for Automotive Testing

- 16 CAN inputs, alternatively
  10 CAN inputs + 6 LIN inputs
  2 Ethernet inputs optional
- WakeOnCAN supported on all CAN inputs
- High/Low speed switching by software supported for 4 CAN inputs
- Quick start with NoMessageLost feature (NML) to acquire first CAN messages from wake-up
- Low standby current consumption
- Complete galvanic isolation for CAN, LIN, ETH and DIG I/O inputs
- Configuration with IPEmotion
- Data streaming to IPEmotion, ETAS INCA, Vector CANape via CAN or XCPonETH
- Wireless connection via cellphone, WiFi with WPS function
- Integrated GPS receiver supports global positioning
- Supporting IPEcloud interface for data exchange
- No fans, hard drives or other mechanical rotating components ...

Operating system	Realtime operating system (RTOS32)
Data storage	4 GB removable CFast card (memory upgrade up to 64 GB optional)
Intelligent power management	WakeOnCAN, NoMessageLost (NML) emergency supply backup with high capacity capacitors
Voltage supply	9 V_{DC} to 36 V_{DC}
Power consumption, typical	10.0 W
Working temperature range * * Derating for data transfer	-40 °C ... +85 °C (-40 °F ... +185 °F) -40 °C ... +70 °C (-40 °F ... +158 °F)
Storage temperature range	-45 °C ... +90 °C (-49 °F ... +194 °F)
Relative humidity	5 ... 95 %
IP-Code	IP 54 (ISO 20653 - 2013)
Dimensions (W x H x D)	206.5 mm x 73 mm x 166.5 mm (8.13 in x 2.87 in x 6.56 in)
Weight	approx. 1750 g (approx. 3.86 lb)

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PC	
CPU	Intel® Atom™ E3805 dual core, 1.33 GHz, 1 MB L2-Cache
RAM / Memory	2 GB
DAQ application running on the logger	TESTdrive (≥ V03.58)
Configuration software (Windows, external)	IPEmotion (≥ V05.00) with PlugIn IPETRONIK LOG (≥ V03.58)
Interfaces	
USB 3.0 (USB 2.0 compatible) 1 Type A female 2/3 VIEW/USB (Lemo 1B 10-pin, green)	 Service interface, data transfer Display M-VIEW*fleet* / Peripheral devices
M-CAN (Lemo 0B 9-pin, blue)	IPETRONIK system bus CAN (M-Series modules, CANpressure, MultiDAQ)
PC (Lemo 1B 16-Pin, white)	Configuration and online visualization (XCPonETH)
X-LINK (Lemo 1B 2+6-pin, orange)	Interfacing X-Modules and X-LINK systems
CAN / LIN inputs (D-Sub 9)	16 x CAN High Speed acc. to ISO 11898-2 optional 10 x CAN (ISO 11898-2), 6 x LIN (V1.3, V2.0)
ETH (Lemo 1B 16-Pin, orange)	Gigabit Ethernet measurement inputs (optional)
DIG IN/OUT (HD-Sub 15)	4 x digital input / 4 x digital output
AUDIO (Lemo 0B 5-pin, grey)	Voice recording and voice output
VIDEO	Video recording via USB
Wireless components	
Modem, built-in (FME connector for external atenna)	GPRS/UMTS/3G/4G Quad-band EGSM 850/900/1800/1900
Wireless LAN, built-in (SMA connector for external atenna)	Standard WiFi 802.11 (2.4 GHz and 5 GHz) a / b / g / n for data transfer to local WiFi access points
GPS, built-in (SMA connector for external atenna)	Satellite positioning, 1 Hz refresh rate, NMEA protocol Gyro sensor 100 Hz
External modem	Dedicated Lemo 0B 9pin connector to interface external modems including status signal communication
Specific features	
Protocols	CCP, XCPonCAN, XCPonETH, KWPonCAN, UDS, J1939, OBD, Automotive Ethernet
CAN-Send	Output measured signals / calculated values to CAN bus
Statistics	Online statistical calculations (DIN, Rainflow, …)
Traffic measurement	Record data from the CAN bus using the traffic mode Different filter and trigger functions
Quickstart	Fast boot-up with NoMessageLost feature
IPEcloud	Web portal for centralized administration of the logger fleet, data management, file conversion, status monitoring, logfile analysis, e-mail alerting, reporting

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Standard cables (extract)		
Power/Remote	620-574.xxx	PWR/REM - Banana
M-CAN (connecting modules)	620-560.xxx	CAN/PWR Lemo 0B
Display M-VIEWfleet	620-578.xxx	VIEW - Lemo 1B angled
Ethernet (IPElog2 < > PC / network)	620-688.xxx	LOG GB-ETH - RJ45
Measuring input CAN	600-580.xxx 620-593.xxx	CAN D-Sub – open CAN D-Sub - 2x D-Sub 9/Pin (standard)
Digital input / digital output	620-324.xxx	DIG I/O HD-Sub 15 - open
Gigabbit ETH (IPElog2 < >FlexRay-Extender)	620-696.010	LOG GB-ETH Cable Extender