

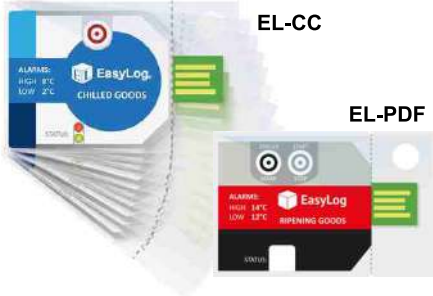
DATA LOGGERS

SECTION 5 ONLINE CATALOGUES

STAND ALONE DATA LOGGERS DATA LOGGING DATA ACQUISITION RECORDERS

DATA LOGGING

COLD CHAIN MONITORING RANGE



EL-CC

EL-PDF



EL-GFX DATA LOGGERS



EL-WIFI DATA LOGGERS

EL-USB DATA LOGGERS



EL-USB-1-LCD
Temperature with LCD



EL-USB-2
Temperature & Relative Humidity



EL-USB-CO
Carbon Monoxide



EL-USB-5
Event, Count & State



EL-USB-3
Voltage



EL-USB-TC-LCD
Thermocouple with LCD



TAGTEMP-NFC



LogBox BLE



LogBox WIFI



LogBox 3G



LogBox-RHT-Climate



LogBox-RHT-LCD



SMART THERMO BOX EP



S - Normally Stock
L - Limited Stock
O - Ex Order

New LogBox Connect family provides the wireless connectivity of new times and the compatibility with cloud data portals, like Novus Cloud. Wireless communication, large autonomy and inputs for any type of sensors are the big highlights of LogBox Connect. It has large display and removable bracket and connectors. The configuration and data download can be performed with mobile application LogChart BLE or notebook/desktop software Nxperience, used to access all LogBox Connect models via USB.

LOGBOX BLE (Bluetooth)

- Monitoring of inner facilities that allow a visual inspection of data loggers
- Configuration and data download via Bluetooth with smart phone using LogChart BLE app
- External power supply 10-30Vdc or 4 AA alkaline batteries
- Autonomy higher than 2 years with batteries (5 min acquisition interval)



Applications:



Environment Monitoring of Laboratories



Temperature Recording in Cold Rooms



Climate Control in Data Centers

LOGBOX WiFi

- Monitoring of larger facilities with WiFi existing infrastructure;
- Configuration and data download via USB or WiFi with NXperience PC software;
- External power supply 10-30Vdc (backup operation with 4 AA alkaline batteries);
- WiFi Data transmission to NXperience, NOVUS Cloud, SCADA or other cloud systems;



Applications:



Climate Monitoring in Distribution Centers



Monitoring of Freezers and Refrigerators in the Cold Chain



Commercial or Supermarket Refrigeration

LOGBOX 3G

- Monitoring in mobile applications or distributes over long distances;
- Configuration and data download via USB with NXperience PC software;
- External power supply 10-30Vdc;
- Internal rechargeable backup battery for up to 8 hours autonomy;
- Data transmission via 3G cellular network to NOVUS Cloud, SCADA or other cloud systems



Applications:



Telemetry of Utility Services



Monitoring of Sensible Products in Transportation



Climate Control in Agricultural Greenhouses



Model with HMI



Model without HMI

FieldLogger is a versatile, powerful and yet cost effective data logger handling analog, digital and other types of variables with high resolution and speed. It is a high performance and high connectivity equipment and yet easy to configure and operate.

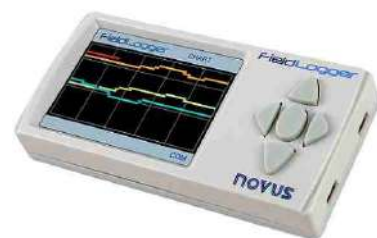
It has 8 configurable analog inputs that can read thermocouples, Pt100, Pt1000, voltage and current signals. It also has 2 relay outputs and 8 digital ports individually configurable as inputs or outputs. Up to 128 mathematical channels can be used to perform operations on the measured values. Up to 32 alarm events can be detected, allowing output activations, e-mails and SNMP traps sending.

Its RS485 interface can operate as a Modbus RTU master or slave. As a master, it can read and log up to 64 external channels. It has a 10/100 Mbps Ethernet interface that allows for access through a browser (HTTP), FTP (client and server), e-mails sending (SMTP), SNMP and Modbus TCP. FieldLogger has one USB interface to be connected to a computer (for configuration, monitoring and data download) and another USB port for plugging a flash driver for data retrieval. The 512k logging basic memory is used to store data and it can be greatly expanded with an SD card. An exclusive color HMI can be attached or remotely installed for local indication or configuration. A user friendly configuration software can be accessed by Ethernet, USB or RS485 and also provides means for on-line monitoring, logged data downloading and exporting to spread sheets and other formats.

- 8 universal analog input channels:
 - Thermocouples, V, mV, mA, Pt100 and Pt1000;
 - Reading and logging rates of up to 1000/second;
 - 24 bit A/D conversion resolution.
- 8 digital I/Os (individually configured as input or output).
- 2 relay outputs (NO, NC and common).
- RS485 interface (Modbus master or slave).
 - When acting as a master, can read up to 64 registers from other slaves;
 - Registers read can be used in logging, alarms or mathematical operations.
- Ethernet interface with a lot of services available:
 - Sends alarm warning e-mails (SMTP);
 - Provides web pages with channels and status information (HTTP);
 - Allows logged data download via FTP (client and server);
 - Accesses status and channels values through network management software (SNMP and traps);
 - Allows Modbus communication by ethernet interface (Modbus TCP).
- 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.
 - Alarm actions can include:
 - Activating relays;
 - Activating digital outputs;
 - E-mails sending to multiple receivers;
 - Sending SNMP traps;
 - Starting and/or stopping loggings.
- Up to 128 virtual channels.
 - Basic mathematical functions to be applied on other channels: sum, subtraction, multiplication, division, logic (AND, OR and exclusive OR), square root and power.
- 24 Vdc output for powering up to eight 4-20 mA transmitters.
 - AC power (100 to 240 Vac);
 - DC Power (19 to 30 Vdc) optional (2011).
- Detachable human-machine interface (optional).
 - Keypad and color TFT QVGA display;
 - RS485 communication with FieldLogger.
- Loggings:
 - Up to 100 channels can be logged at a configurable rate.
 - Data download through the configuration software or through the freely distributed download DLL.
 - Rated UL

FIELD LOGGER HMI

- Colour QVGA screen 2.4"
- 96 x 48mm format
- Shows the current channel values or a historical chart
- Indicates FieldLogger status and alarms information
- Allows parameter checking and configuration
- Local or remote installation with Rs485 communication
- Optional kit for HMI remote monitoring



EL-USB Data Loggers



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

DATA LOGGERS



PART NUMBER	CASE	FUNCTION	DESCRIPTION
EL-USB-1 EL-USB-1-LCD(LCD display)	A B	Temperature	These standalone data logger measures and stores more than 16,000 temperature readings over a -35 to +80°C / -31 to + 176°F range.
EL-USB-1-PRO	D	Temperature	This standalone data logger measures more than 32,000 readings over a -40 to +125°C (-40 to +257°F) range.
EL-USB-1-RCG	D	Temperature	This standalone data logger measures over 32,000 readings over a -20 to +60°C (-4 to +140°F) range.
EL-USB-2 EL-USB-2+ (higher accuracy) EL-USB-2-LCD(LCD display) EL-USB-2-LCD+ (LCD,higher accuracy)	A B	Temp/RH	These standalone data logger measures over 16,000 readings over a -35 to +80°C (-31 to +176°F) and 0 to 100% humidity (RH) range.
EL-USB-3	C	Voltage	This standalone data logger measures more than 32,000 readings over a 0 to 30V d.c. range at a resolution of 5mV d.c.
EL-USB-4	C	Current	This standalone data logger measures more than 32,000 readings over a 4-20mA d.c. measurement range.
EL-USB-5 EL-USB-5+ (higher accuracy)	C	Event, State & Count	These standalone data logger measures more Event counter data logger (32510 recordings).
EL-21CFR-TP-LCD EL-21CFR-TP-LCD+ (higher accuracy)	F	Thermistor	This 21CFR-compliant standalone data logger records and displays over 32,000 temperature readings from the supplied thermistor probe. The data logger features an LCD and push-button which allow the user to cycle through the most recent, highest and lowest stored readings.
EL-21CFR-1-LCD	B	Temperature	This 21CFR-compliant standalone data logger measures more than 16,000 readings over a -35 to +80°C (-31 to +176°F) range. At the touch of a button, use the on-board display to cycle between the current, minimum and maximum temperature logs seen during the session.
EL-21CFR-2-LCD EL-21CFR-2-LCD+ (higher accuracy)	B	Temp/RH	These 21CFR-compliant standalone data logger measures more than 16,000 readings over a -35 to +80°C (-31 to +176°F) and 0 to 100% relative humidity (RH) range. At the touch of a button, use the on-board display to cycle between the current, minimum and maximum logs seen during the session for both temperature and humidity.
EL-21CFR-TP-LCD-PROBE-G	F	Thermistor	This 21CFR-compliant standalone data logger records and displays over 32,000 temperature readings from the supplied high accuracy thermistor probe. The data logger features an LCD and push-button which allow the user to cycle through the most recent, highest and lowest stored readings.
EL-USB-TP-LCD EL-USB-TP-LCD+	F	Thermistor	These standalone data logger records and displays over 32,000 temperature readings from the supplied thermistor probe.
EL-USB-TC-LCD	F	Thermocouple	This standalone data logger measures over 32,000 readings from inter-changeable J, K or T type thermocouples.
EL-USB-CO	G	Carbon Monoxide	Carbon monoxide data logger 0 - 1000ppm CO.
EL-USB-CO300	G	Carbon Monoxide	Carbon monoxide data logger 0 - 300ppm CO.
EL-USB-ACT	E	Current	AC and DC millivolt data logger with current clamp input.
EL-OEM-3	J	Voltage	This low-cost, component-style data logger measures and stores up to 64,000 voltage readings over a 0 to 2.4V d.c. measurement range.
EL-USB-Lite	H	Temperature	This standalone data logger measures temperature every 30 minutes over a -10 to +50°C (+14 to +122°F) range.
EL-USB-RT	I	Temp/RH	When plugged into a PC's USB port, this sensor measures ambient temperature and relative humidity.
EL-USB-TC	A	Thermocouple	This standalone data logger measures over 32,000 readings from inter-changeable J, K or T type thermocouples.
EL-USB-TP-LCD-Probe-G	F	Thermistor	Lascar Electronics has paired its EL-USB-TP-LCD thermistor probe data logger with a glycol bottle thermistor probe for users who need a complete vaccination temperature monitoring system.

EL-GFX Data Loggers



S - Normally Stock
L - Limited Stock
O - Ex Order



DATA LOGGERS



PART NUMBER	FUNCTION	DESCRIPTION
EL-GFX-2 EL-GFX-2+ (higher accuracy)	Temp/RH	These high accuracy USB data logger records over 250,000 temperature and relative humidity readings in one or more sessions for up to 4 months.
EL-GFX-1	Temperature	This USB data logger records over 250,000 temperature readings in one or more sessions for up to 6 months.
EL-GFX-TC	Thermocouple	This USB data logger records over 250,000 temperature readings in one or more sessions for up to 4 months.
EL-GFX-DTP-PROBE-G	Thermistor	This standalone data logger measures more than 32,000 readings over a 4-20mA d.c. measurement range.
EL-GFX-DTP EL-GFX-DTP+ (higher accuracy)	Thermistor	These USB data logger records over 250,000 temperature readings in one or more sessions for up to 4 months.
EL-GFX-DTC	Thermocouple	This USB data logger records over 250,000 temperature readings per channel in one or more sessions for up to 4 months. It is compatible with K, J and T-type thermocouples.

EL-WIFI Data Loggers



S - Normally Stock
L - Limited Stock
O - Ex Order



PART NUMBER	FUNCTION	DESCRIPTION
EL-WIFI-TC EL-WIFI-21CFR-TC	Thermocouple	These WiFi-enabled data logger can remotely monitor an environment using an inter-changeable J, K or T type thermocouple.
EL-WIFI-TP EL-WIFI-TP+ (higher accuracy) EL-WIFI-21CFR-TP+ (higher accuracy)	Thermistor	These WiFi-enabled temperature data logging sensor can remotely monitor an environment over a -40 to 125°C (-40 to 257°F) measurement range.
EL-WIFI-TH EL-WIFI-TH+ (higher accuracy) EL-WIFI-21CFR-TH+ (higher accuracy)	Temp/RH	These WiFi-enabled temperature, humidity and dew point data logger can remotely monitor an environment over a -20 to +60°C (-4 to +140°F) and 0 to 100% RH measurement range.
EL-WIFI-T EL-WIFI-T+ (higher accuracy) EL-WIFI-21CFR-T+ (higher accuracy)	Temperature	These WiFi-enabled data logger can remotely monitor an environment over a -20 to +60°C (-4 to +140°F) measurement range.
EL-WIFI-DTP+ EL-WIFI-21CFR-DTP+	Thermistor	These WiFi-enabled dual channel data logger can remotely monitor an environment using two high accuracy thermistor probes.
EL-WIFI-DTC EL-WIFI-21CFR-DTC	Thermocouple	These WiFi-enabled dual channel data logger can remotely monitor an environment using two inter-changeable J, K or T type thermocouples.
EL-WIFI-TP+-PROBE-G EL-WIFI-21CFR-TP+-PROBE-G	Thermistor	The EL-WIFI-TP+-PROBE-G allows remote vaccine monitoring and data collection over a WiFi network, viewable from any internet enabled device including smartphone, tablet or PC.
EL-WIFI-DTP+-PROBE-G EL-WIFI-21CFR-DTP+-PROBE-G	Thermistor	The EL-WIFI-DTP+-PROBE-G allows remote vaccine monitoring and data collection over a WiFi network, viewable from any internet enabled device including smartphone, tablet or PC.
EL-WIFI-ALERT	Audible Visual Alert	The EL-WIFI-Alert is a standalone monitoring system for all sensor devices in the EasyLog WiFi range. The EL-WiFi-Alert will receive alarm messages from any EL-WiFi sensor device connected to the same wireless network.

Remote Monitoring Range



S - Normally Stock
L - Limited Stock
O - Ex Order

LASCAR

DATA LOGGERS



PART NUMBER	FUNCTION	DESCRIPTION
EL-NFC-1	Temperature	The EL-NFC-1 is a small waterproof temp data logger that transmits data to an NFC enabled Android™ device. -20 to +60°C (-4 to +140°F) range.
EL-SMS-2G-TP EL-SMS-2G-TP+ (higher accuracy)	Temperature	The battery operated EL-SMS-2G-TP is a temperature alert module communicating daily, weekly or monthly temperature summaries via SMS. -40 to +125°C (-40 to +257°F) range.
EL-BT-2 (Bluetooth connectivity)	Temp/RH	The EL-BT-2 data logger measures and stores up to 500,000 temperature and humidity readings. The LCD screen on the device indicates Bluetooth connection status as well as logger operation.
EL-SMS-2G-PROBE-G	Temperature	EL-CC-2-001 Chilled Goods data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 8°C, Low 2°C Alarms - simply press the button to start logging.

Cold Chain Monitoring Range



S - Normally Stock
L - Limited Stock
O - Ex Order



PART NUMBER	FUNCTION	DESCRIPTION
EL-CC-1-001 (Chilled Goods)	Temperature	The EL-CC-1-001 Chilled Goods data logger comes pre-configured with sample High 8°C, Low 2°C Alarms - simply press the button to start logging.
EL-CC-1-002 (Frozen Goods)	Temperature	The EL-CC-1-002 Frozen Goods data logger comes pre-configured with sample High -16°C, Low -20°C Alarms - simply press the button to start logging.
EL-CC-1-003 (Ripening Goods)	Temperature	The EL-CC-1-003 Ripening Goods data logger comes pre-configured with sample High 14°C, Low 12°C Alarms - simply press the button to start logging.
EL-CC-2-001	Temp/RH	EL-CC-2-001 Chilled Goods data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 8°C, Low 2°C Alarms - simply press the button to start logging.
EL-CC-2-002	Temp/RH	EL-CC-2-002 Frozen Goods data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High -16°C, Low -20°C Alarms - simply press the button to start logging.
EL-CC-2-003	Temp/RH	EL-CC-2-003 Ripening Goods data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 14°C, Low 12°C Alarms - simply press the button to start logging.
EL-CC-2-004	Temp/RH	EL-CC-2-004 Ambient Pharmaceutical Goods data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 25°C, Low 8°C Alarms - simply press the button to start logging.
EL-CC-2-005	Temp/RH	EL-CC-2-005 Blood Shipments data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 10°C, Low 1°C Alarms - simply press the button to start logging.
EL-CC-2-006	Temp/RH	EL-CC-2-006 Platelets Transportation data logger measures and stores both temperature and humidity information. The unit comes pre-configured with High 24°C, Low 20°C Alarms - simply press the button to start logging.
EL-PDF-1-001	Temperature	EL-PDF-1-001 Chilled Goods data loggers come pre-configured with High 8°C, Low 2°C Alarms - simply press the start button to begin logging. No software required
EL-PDF-1-002	Temperature	EL-PDF-1-002 Frozen Goods data loggers come pre-configured with High -16°C, Low -20°C Alarms - simply press the start button to begin logging. No software required
EL-PDF-1-003	Temperature	EL-PDF-1-003 Ripening Goods data loggers come pre-configured with High 14°C, Low 12°C Alarms - simply press the start button to begin logging. No software required
EL-PDF-1-004	Temperature	EL-PDF-1-004 Ambient Pharma Goods data logger comes pre-configured with High 25°C, Low 8°C Alarms - simply press the start button to begin logging. NSR

EL-MOTE WiFi



S - Normally Stock
L - Limited Stock
O - Ex Order



DATA LOGGERS



Smart Probes



PART NUMBER	FUNCTION	DESCRIPTION
EL-MOTE-T EL-MOTE-T+	Temperature	The EL-CC-1-001 Chilled Goods data logger comes pre-configured with sample High 8°C, Low 2°C Alarms - simply press the button to start logging.
EL-MOTE-TP EL-MOTE-TP+	Temperature	WiFi Temperature sensor with external thermistor probe Supplied with 1 probe -40°C to +125°C (-40°F to +257°F)
EL-MOTE-TH EL-MOTE-TH+	Temp/RH	WiFi Temperature and humidity sensor with external temp/RH probe Supplied with 1 probe -20°C to +60°C (-4°F to +140°F) & 0 to 100% RH range
EL-MOTE-DTP EL-MOTE-DTP+	Temperature	High accuracy dual channel WiFi Temperature sensor with x2 external thermistor probes.
EL-MOTE-PROBE-T EL-MOTE-PROBE-T+	Temperature	Short Temperature Probe
EL-MOTE-PROBE-2M-TH EL-MOTE-PROBE-2M-TH+	Temp/RH	Temperature and Humidity probe with 2 metre cable
EL-MOTE-PROBE-1M-25-TP EL-MOTE-PROBE-3M-25-TP EL-MOTE-PROBE-3M-75-TP+	Temperature	25mm or 75mm Temperature probe with 1 or 3 metre cable

Smart Thermo Box EP



Medical Products
Transportation Monitoring



Sensitive Products
Transportation Monitoring



Temperature Sensitive
Product Storage



Storage, preservation and transport of health and laboratory products sensitive to variations in temperature (drugs, vaccines, biological material, blood products and samples for clinical analysis).

- ✓ Long temperature conservation
- ✓ Temperature Limit Alarm
- ✓ Replaceable battery with 2 years of battery life
- ✓ Cloud Data for Auditing



Data Logger Thermometer

- ✓ Integrated display informs current minimum and maximum temperatures
- ✓ Continuous information recording in memory
- ✓ NFC wireless communication with smartphone or computer
- ✓ NOVUS Cloud data availability

TagTemp-STICK



S - Normally Stock
L - Limited Stock
O - Ex Order

novus

DATA LOGGERS

TagTemp-Stick is an electronic temperature data logger, compact and robust, that dispenses use of cables for configuration and data collecting. Plugs directly into a USB interface of a computer with Windows® to communicate with the application LogChart II.

- Measure range: - Temperature: -20.0 °C to 70.0 °C.
- Accuracy: - ± 0.5 °C @ 25 °C; - ± 1 °C max. along the entire measured range.
- Measurement resolutions: Temperature: 0.1 °C.
- Memory capacity: 32.000 (32 k) logs.
- Measurement interval: - 5 seconds min, - 18 hours max.
- Power Supply: 3.0 V lithium battery (CR2032), built-in.



TagTemp-USB



S - Normally Stock
L - Limited Stock
O - Ex Order

TagTemp-USB is a small portable electronic temperature logger. Its internal sensor measures local environment temperature and logs such values in an electronic memory. Logged data, or ACQUISITIONS, can be later viewed and analyzed on a PC where they can be opened in tabular and graph forms.

- Measure Range: - Temperature: -20.0 °C to 70.0 °C.
- Accuracy: - ± 0.5 °C @ 25 °C; - ± 1 °C max. along the entire measured range.
- Measurement Resolutions: - Temperature: 0.1 °C.
- Memory capacity: 32.000 (32 k) logs.
- Measurement Interval: - 5 seconds min, - 18 hours max.
- Supply: 3.0 V lithium battery (CR2032), built-in



TagTemp-NFC



S - Normally Stock
L - Limited Stock
O - Ex Order

Compact with external temperature sensor, memory capacity of 4000 records. Wireless configuration and data acquisition through its NFC interface (Near Field Communication) by using android smartphones or tablets. Internal battery life of 400 days (not replaceable).

- Measure range: -40 °C to +70 °C
- Temperature Accuracy: ± 0.5 °C to 25 °C; ± 1.0 °C on all range
- Measurement resolutions: 0.1 °C
- Memory capacity: 4.020 logs
- Measurement interval: Programmable between 5 min and 2 h



LogBox-AA / LogBox-DA



S - Normally Stock
L - Limited Stock
O - Ex Order

LogBox-AA is an electronic data logger with two input analog channels.

LogBox-DA is an electronic data logger with two input channels, one analog and one digital.

Input data is stored in the logger internal memory, for later download to a PC for visualization and analysis in the form of tables or graphs. The data is easily exported to spreadsheets.

LogBox-DA

- Channel 1: NPN, PNP, Pulse or Dry Contact
- Max frequency: 4000Hz or 20Hz
- Maximum counting: 65.535 per period
- Channel 2: 0-20mA, 4-20mA, 0-50mV AND 0-10 Vdc
- Memory capacity: 32k or 64k readings
- Interval between readings: 1 second to 18 hours
- External battery switch time: 0 to 10s
- Power: Internal 3.6V Lithium battery (1/2AA)
- Working Temperature: from -40°C to 70°C
- Protection IP65 and IP67 models

LogBox-AA

- Input: 0-20mA, 0-50mV and 0-10Vdc
- J, K, T, N, R, S, B and Pt100 Ranges
- Memory capacity: 32k or 64k readings
- Interval between readings: 1 second to 18 hours
- External battery switch time: 0 to 10s
- Power: Internal 3.6V Lithium battery (1/2AA)
- Working Temperature: from -40°C to 70°C
- Protection IP65 and IP67 models



LogBox-AA



LogBox-DA

LogBox-RHT-LCD



S - Normally Stock
L - Limited Stock
O - Ex Order

LogBox-RHT-LCD is dual channel data loggers with built-in temperature and relative humidity sensors. They use a high quality industrial grade humidity sensor for accurate and reliable operation in applications such as transportation, food and goods storage, process auditing, pharmaceutical, HVAC and others.

- Temperature measurement
 - Range: -40 to 80 °C. Resolution: 0.1°C
 - Response time: up to 30 s in fairly still air
- Humidity measurement
 - RH Range: 0 to 100 %RH. Resolution: 0.1 %RH
 - Dew point range: -40° to 100 °C. Resolution 0.1 °C
 - Response time: 8 s in fairly still air, from 20 to 80 %RH
- Memory for 32,000 recordings in one channel or 16,000 recordings for each channel



DigiRail-VA



S - Normally Stock
L - Limited Stock
O - Ex Order

novus

DATA ACQUISITION

The DigiRail-VA is the latest addition to the successful and cost effective DigiRail family. Specifically designed for single phase AC power analysis applications, it is able to measure the most important AC signals and retransmit them in both analog and digital way.

It measures and calculates:

- Voltage: 0 to 300 Vac (True-RMS)
- Current: 0 to 5 Aac (True-RMS) - It does allow use of CTs for higher current applications
- Active Power
- Reactive power
- Apparent power
- Frequency: 45 to 65 Hz
- Power Factor: 0.00 to 1.00



DigiGate Profibus



S - Normally Stock
L - Limited Stock
O - Ex Order

novus

DigiGate Profibus is the ideal equipment for interconnecting a Profibus DP network with a Modbus RTU network. It works as a gateway, operating as a master station in the Modbus network and as a slave station in the Profibus network. Thus, according to its previous configuration, DigiGate will read the data of the other devices (slaves) of the Modbus network and send the read values to the Profibus master. In the same way, it will write at the output of the Modbus slaves according to the Profibus master requests, providing a complete control of the Modbus network devices through the Profibus network.

- Protocol: Profibus DP
- Operates at the entire range of communication rates, from 9600 bps to 12 Mbps
- Addressing range: 0 to 125
- Automatic detection of supported baud rate
- "GSD" file included
- Termination and polarization resistors included (activated by jumper)
- Profibus connection: DB9 connector



DigiRail (Signal conditioning and digital transmitter)



S - Normally Stock
L - Limited Stock
O - Ex Order

novus

The DigiRail line of smart transmitters with Modbus RTU communication interface provide a simple way for integrating analog or digital signals to supervisory systems.

- Analog inputs: programmable for thermocouples (J, K, T, E, N, R, S, B), Pt100, mV, V, mA
- Cold junction compensation for thermocouples and compensation for Pt100 3-wire cables
- Open loop detection for thermocouples, Pt100 and mV
- Sampling rate for 1 analog input: 10Hz for mV, V and mA. 5 Hz for t thermocouples and Pt100
- Analog input resolution: 17 bits
- Digital inputs: in voltage, 4 to 35 V to activate. Internally limited current in 5 mA
- Digital outputs: 8 A / 250 Vac SPDT relay, resistive load
- Power: 10 to 35 Vdc, 50 mA maximum current
- 2-wire RS485 communication with Modbus RTU protocol. Configurable address and baud rate (1,200 to 115,200bps)
- LED indicators for communication and status
- Key for resetting communication parameters to original factory default
- Accuracy (at 25 °C): Pt100, mV, V and mA: $\pm 0.15\%$ of full scale. Thermocouples: $\pm 0.25\%$ of full scale
- Temperature effect: 0.003 % of full scale/°C
- Cold junction compensation for thermocouples: 1 °C at 25 °C. $\pm 0.05\text{ °C} / \text{°C}$
- Isolation: 1000 Vac from inputs (analog or digital) and power or communication
- Windows based configurator software.



DATA ACQUISITION



FIELD LOGGER



USB-i485



SUPERVIEW MOBILE

SuperView Mobile is a SCADA (Supervisory Control and Data Acquisition) system designed for users who want to do monitoring, control and supervision of devices and equipment in industrial plants using Smartphone.

TxBLOCK-USB (Native USB port)



S - Normally Stock
L - Limited Stock
O - Ex Order

TxIsoPack (Isolated 4-20mA)



S - Normally Stock
L - Limited Stock
O - Ex Order

TxMiniBlock (Programmable RTD)



S - Normally Stock
L - Limited Stock
O - Ex Order



TEMPERATURE TRANSMITTER

TxBLOCK is fully customer programmable head mount temperature transmitter. In the field configuration of input type and working range can be achieved by means of a cable and an RS232 port from a PC or, optionally, from a Palm PDA infrared port.

- Programmable input: Pt100 RTD and thermocouples type J, K, T, E, N, R, S, B.
- 2 wire loop powered 4-20mA output.
- Power supply: 10 to 35Vdc
- Linearized output and cold junction compensation for thermocouples.
- 2 or 3 wire Pt100 with linearization.
- Programmable working range
- Windows configurator or Palm (optional).
- Manual frontal zero (offset) adjustment.
- Accuracy: ±0.2% full scale for Pt100 and 0.3% max. Of FS for thermocouples.
- Temperature effect: 0.003% SPAN°C.
- Working temperature: -40 to +85°C.
- Programmable burnout upscale or downscale sensor failure protection.
- Dimensions: φ44mmx25mm(H)



TxRail (4-20mA) / (0-10VDC)



S - Normally Stock
L - Limited Stock
O - Ex Order

TxIsoRail (Isolated 4-20mA/0.5 output)



S - Normally Stock
L - Limited Stock
O - Ex Order

TxRail-USB (USB Configurable)



S - Normally Stock
L - Limited Stock
O - Ex Order

TxRail represents the utmost technology in DIN rail mount temperature transmitters. Input type, working range and output calibration can be achieved by means of a cable and an RS232 port from a PC or, optionally, from a Palm PDA infrared port.

- Programmable input: Pt100 RTD and thermocouples type J, K, T, E, N, R, S, B.
- 2 wire loop powered 4-20mA output.
- Optional 0 to 10Vdc or frequency output.
- Power supply: 10 to 35Vdc
- Linearized output and cold junction compensation for thermocouples.
- 2 or 3 wire Pt100 with linearization.
- Programmable working range
- Windows configurator or Palm (optional).
- Manual frontal zero (offset) adjustment.
- Accuracy: ±0.2% full scale for Pt100 and 0.3% max. of FS for thermocouples.
- Temperature effect: 0.003% SPAN°C.
- Working temperature: -40 to +85°C.
- Programmable burnout upscale or downscale sensor failure protection.
- Dimensions: 78x70x19mm



ISOLATED



NON-ISOLATED

TxIsoPack-HART



S - Normally Stock
L - Limited Stock
O - Ex Order

TxIsoRail-HART



S - Normally Stock
L - Limited Stock
O - Ex Order

The TxIsoPack-HART and TxIsoRail-HART are high performance temperature transmitters which convert RTDs, Thermocouples and voltage signals into a 4-20 mA current along with a superimposed HART protocol digital communication. Complete configuration, calibration and parameters monitoring can be fully achieved through the two-wire current loop by means of a convenient PC software and USB interface called TxConfig-HART. Sensor type input is fully programmable for most relevant RTDs, thermocouples, variable resistors, and voltage in mV. High Isolation between input and output drastically improves stability and reliability with greater immunity to electromagnetic noises in extremely harsh industrial environments



TEMP WM-DM



S - Normally Stock
L - Limited Stock
O - Ex Order

NOVUS

TEMPERATURE TRANSMITTER

The TEMP-WM and TEMP-DM transmitter series incorporate the best high accuracy and great stability temperature sensors. They convert the measured values into linear 4 to 20 mA signals and optional 0 to 10 Vdc output can also be offered under request. The microprocessor based circuit enables full configuration of output range when used with the TxConfig PC interface and the Windows® based software. The TEMP-WM model is dedicated to wall mounted applications and the TEMP-DM version is suitable for duct and through-the-wall applications.

Power:

- 12 to 30 Vdc (model 4-20 mA)
- 18 to 30 Vdc (model 0-10 V)
- Cable input: PG7 cable gland

Output:

- Two-wire loop powered 4-20 mA or 20-4 mA

Voltage output:

- 0-10 Vdc or 10-0 Vdc (optional)

Output resolution:

- 0,006 mA (4-20 mA)
- 0,003 V (0-10 Vcc)
- Output load: (RL)
- Model 4-20 mA: $RL \text{ (max. in Ohms)} = (Vdc - 12) / 0.02$; where: Vdc=power voltage in Volts
- Model 0-10 Vdc: 10 kOhms minimum

Ingress Protection:

- Electronic module case-IP65
- Sensor probe-IP40
- Internal protection against reversed voltage wire polarity
- No electrical isolation between input, output and power circuits



USB i485



S - Normally Stock
L - Limited Stock
O - Ex Order

NOVUS

CONVERTERS

The USB-i485 module is a cost-effective way to convert RS485 or RS422 industrial buses to a USB interface. When connected to a PC USB port the USB-i485 module is automatically detected and is installed as a native COM port which is compatible with any existing serial communication application.

- Computer interface: USB V1.1 Plug and Play
- Operational system virtual serial port driver
- Supports Windows 7/Vista/XP/2008Server/2003Server/98/ME/2000/CE, MAC and Linux 2.4.20 or above. 64 bit options for latest operating systems.
- Field Interfaces: RS485 Half Duplex (dual buses), RS485 Full Duplex or RS422
- Jumper selected RS485 / Rs422
- Automatic flow control for RS485 Half Duplex
- 120 Ohms internal resistors termination enabled by jumpers
- Transmission rate: from 300 bps to 250 kbps
- Maximum RS485/RS422 cable length: 1200 m
- Maximum number of devices in the RS485 network
- Half Duplex: 2 x 32 devices
- Full Duplex: 32 devices
- Data transmission and reception LED indicators
- Consumption: <100 mA
- Isolation: 1500 Vdc from USB interface and the RS485/RS422 interface
- RS485/422 bus protection: ±60 Vdc, 15 kV ESD
- USB connection: Mini-B connector
- A 1.5 m cable with plugs mini-B and A is provided with the module
- RS485/422 connector: screw terminal type accepting 1.5 mm² (16 AWG) wires
- ABS enclosure: 70 x 60 x 18 mm
- Operating environment: 0 to 70°C, 10 to 90% relative humidity, non-condensing



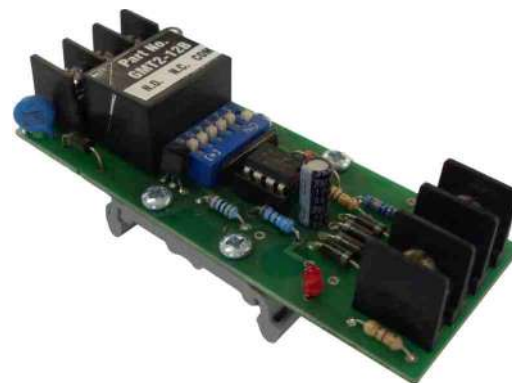
ISO485-1



S - Normally Stock
L - Limited Stock
O - Ex Order

RS485/232 isolated converter



GMT2-12B (12V AC/DC)S - Normally Stock
L - Limited Stock
O - Ex Order**GREENLINE ECONO TIMER****GMT2-24B** (24V AC/DC)**GMT2-48B** (48V AC/DC)**GMT2-110A** (110V AC)**GMT2-220A** (220V AC)

- Dipswitch selectable functions
- Dipswitch selectable present times
- Better than 2% accuracy
- Small footprint DIN Rail mountable
- Low cost - High reliability
- LED-Relay state indication
- Change over relay contacts with ARC protection
- Supply Voltage: 220VAC
- Current consumption: <26mA
- Timing Accuracy: <2%
- Max continuous current: 10A
- Max switching Voltage: 30V DC, 250V AC
- Max switching current: 10A
- Max switching power :24W, 1.Kva






TC-PRO 2400S - Normally Stock
L - Limited Stock
O - Ex Order**MULTI-FUNCTION DISPLAY UNIT**

- 8-digit high resolution LCD(8mm high)
- Manual Reset& External Reset
- 23 functions(15 Timer functions, 6 Counter functions, Frequency Meter & Tachometer)
- Unique battery cover design for easy battery replacement
- Programable Reset button to prevent wrong-button push




- Model: C2400
- Size: 48×24×45.7(Unit:MM)
- Timer range: 0-99999999(the setting unit is S)
- Counter range: 0-99999999
- Response frequency: 2.5Hz~1300Hz
- RPM range: 150~78000(unit: Round per minute)
- Power Supply: CR2 850mAh (23 ± 3 °C constant current 10mA continuous discharge to the termination voltage 2.0V)
- Operation temperature: -10°C~55°C
- Screw type: M3
- Front panel waterproof protection: Ip66
- Rear panel waterproof protection: Ip20
- Vibration: IEC60068-2-6
- Static discharge: IEC1000-4-2(4KV Air/2KV contact)
- Electromagnetic field: IEC1000-4-3(field strength 10V/m, frequencyMHz~1GMHz)
- Shock pulse: IEC1000-4-4(1KV input)
- Weight about: 33g
- Opening size: 45×22(unit:MM)



EL-WiFi Data Loggers

EL-WiFi-T Temperature  -20 to +60°C range	EL-WiFi-TH Temperature & Humidity  -20 to +60°C & 0 to 100% RH range	EL-WiFi-TC Thermocouple  -270 to + 1335°C (J, K, N & T-type)	EL-WiFi-DTC Dual-channel Thermocouple  -270 to + 1335°C (J, K, N & T-type)	EL-WiFi-TP Thermistor Probe  -40 to +125°C
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High Accuracy available: EL-WiFi-T+ High Accuracy available: EL-WiFi-TH+ High Accuracy available: EL-WiFi-TP+

EL-WiFi-DTP+ Higher Accuracy Dual-Channel Thermistor Probe  -40 to +125°C	EL-WiFi-THP External Temperature and Humidity Probe  -20 to +60°C & 0 to 100% RH range	EL-WiFi-Alert Alert Module with Audible & Visual Alarm 
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High Accuracy available: EL-WiFi-THP+



EL-USB Data Loggers

EL-USB-1 Temperature  -35 to +80°C range	EL-USB-1-LCD Temperature with LCD  -35 to +180°C range
EL-USB-1-PRO Industrial Temperature  -40 to +125°C range	EL-USB-1-RCG Temperature with Rechargeable Battery  -20 to +60°C range
EL-USB-2 Temperature & Relative Humidity  -35 to +80°C & 0 to 100% RH range Higher Accuracy Available: EL-USB-2+	EL-USB-2-LCD Temperature & Relative Humidity with LCD  -35 to +80°C & 0 to 100% RH range Higher Accuracy Available: EL-USB-2-LCD+
EL-USB-LITE Low Cost USB Temperature  -25 to +50°C range	EL-USB-RT Real-Time Temperature, Relative Humidity and Dew-Point  -20 to +70°C & 0 to 100% RH range
EL-USB-3 Voltage  0 to 30V d.c. range	EL-USB-4 4 - 20mA  4 - 20mA range
EL-USB-5 Event, Count & State  Up to 100Hz	EL-USB-CO Carbon Monoxide  0 to 300ppm & 0 to 1000ppm range Higher Accuracy Available: EL-USB-CO300
EL-USB-TC Thermocouple  -200 to +732°C (J, K & T-type)	EL-USB-TC-LCD Thermocouple with LCD  -200 to +732°C (J, K & T-type)
EL-USB-TP-LCD Thermistor Probe with LCD  -40 to +125°C Higher Accuracy Available: EL-USB-TP-LCD+	EL-USB-ACT AC and DC Millivolt with Current Clamp Input  0-707mV a.c. & ±1000mV d.c.



EL-EnviroPad
Thermometer with Inbuilt Data Logging, Graphing, Spot Measurement and Checklist Mode

Thermocouple



-270 to +1300°C
(J, K, N & T-type)



EL-DataPad
Handheld Programmer and Data Collector for EL-USB Data Loggers

Accessories



EL-USB-CASE
Protective Metal Case for EL-USB-1



PAD-BOOT-BLACK
Protective Rubber Casing for EL-DataPad and EL-EnviroPad-TC



BAT 3V6 1/2AA
Non-rechargeable 1/2 AA Lithium Battery for Use with Most Lascar Data Loggers



BAT 3V6 2/3AA H TEMP
2/3 AA Lithium Battery for EL-USB-1-PRO



BATT 3VX5
Non-rechargeable Lithium Coin Cell Battery for EL-USB-LITE



PSU-5VDC-USB-USA
Mains Power Adapter

EL-GFX Data Loggers

EL-GFX-1
Temperature



-30 to +80°C range

EL-GFX-2
Temp & RH



-30 to +80°C &
0 to 100% RH range

EL-GFX-TC
Thermocouple



-200 to +732°C
(J, K & T-type)

High Accuracy available: EL-GFX-2+

EL-GFX-DTC
Dual Channel Thermocouple



-200 to +732°C
(J, K & T-type)

EL-GFX-DTP
Dual Channel Thermistor Probe



-40 to +125°C

High Accuracy available: EL-GFX-DTP



Remote Monitoring Range



EL-BT-2
Bluetooth Temp and RH with Android Compatibility

Temp/RH



-30 to +80°C &
0 to 100% RH range

Cold Chain Monitoring Range



EL-CC-1
Cold Chain Temperature Monitor
-001 Chilled Goods, 2-8°C Alarm Threshold
-002 Frozen Goods, -16--20°C Alarm Threshold
-003 Ripening Goods, 12-14°C Alarm Threshold

Temperature



-20 to +40°C range

EL-Vaccination Range - Data Logger, Glycol Bottle and Calibration Certificate in One Complete Kit



EL-USB-TP-PROBE-G
External Temperature with LCD and Thermistor Glycol Probe. Includes Fridge/Freezer Calibration Certificate



EL-GFX-DTP-PROBE-G
Dual-channel Temperature Thermistor with Glycol Probe. Includes Fridge/Freezer Calibration Certificate



EL-WiFi-TP+-PROBE-G
Remote External Temperature with Thermistor Glycol Probe. Includes Fridge/Freezer Calibration Certificate



Available in Dual Channel:
EL-WiFi-DTP+-Probe-G



Calibration

Every data logger includes a warranty that it will perform to specification. However, some regulations require accompanying test certificates confirming that the data loggers are within calibration. Lascar can provide UKAS traceable certificates with any temperature, humidity, thermocouple or thermistor data logger.

APC040-24D (24VDC)

APC040-220A (220VAC)

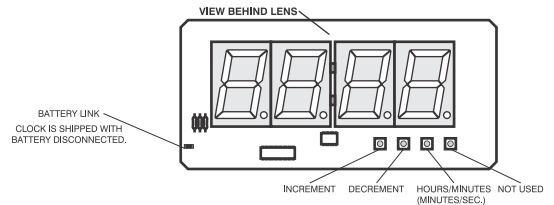


S - Normally Stock
L - Limited Stock
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BIG DIGIT DISPLAYS

- 96x192mm Bezel
- 92x186mm Cutout
- 38mm LED Digits
- 12 or 24 hour format
- Hours and minutes switchable to minutes and seconds for special functions.
- Also available as elapsed time indicator.
- Good accuracy, mains version counts frequency and 24V dc version has high accuracy oscillator. (On special order 238V AC version can be supplied to operate on the oscillation if the mains frequency is not stable; however in South Africa the mains frequency is very accurate).
- Battery backup in case of mains failure (display blank but time is kept).
- Optional setting buttons (front of lens, behind lens(std) or via terminals on rear for setting purposes).



WD.....



S - Normally Stock
L - Limited Stock
O - Ex Order

WDCLK5100 (5-Digit Clock)

WDCLK6100 (6-Digit Clock)

WDCNT4100 (4-Digit Counter)

WDCNT5100 (5-Digit Counter)

WDCNT6100 (6-Digit Counter)

WDTIM4100 (4-Digit Timer)

WDTIM5100 (5-Digit Timer)

WDTIM6100 (6-Digit Timer)

This range of clocks/counters have been designed specifically for the industrial market for time and counter applications. These modules can be supplied with six digits up to 180mm high and with count/time backup on power failure. All inputs are isolated via onto-couplers giving the units flexibility with regards to the input voltage. All the units are fitted in a rugged powder coated aluminium enclosure with wall mounting brackets on the sides. All the displays are constructed from red high brightness seven segment LED displays giving excellent visibility over large viewing area. The battery back-up function keeps the last-count or the time and blanks the display until the main supply is restored and then continues to function normally. Re-adjusting the time or count therefore is not required after a power failure. The clocks have been upgraded with a high stability temperature compensated crystal oscillator to give an accuracy of 1 min per year from 0°C to 40°C. Top quality industrial display's using large bright 100 or 180mm high digits. These units are for indoor use only, and are ideal for situations requiring a large clear display. The digits can be read from approx. 60m away (depending on ambient light), and models are available to operate off a variety of input signals:- e.g. 4-20mA, 0-10V, B.C.D etc...

Voltages: 24VDC & 110V or 220VAC.

Clocks

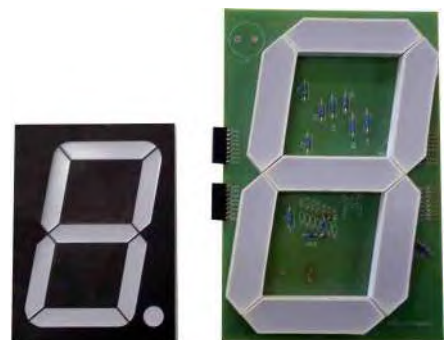
- Size variants (digit height 100mm or 180mm)
- Digit count HH:MM:SS (4 digits or 6 digits)
- Enclosure options (colour) (Matt black or beige)(include IP rated enclosure?)
- Bracket options (wall mount with swivel or panel mount)
- Setting options: Remote, Cabled remote, Side Panel, Data feed, iRig, b signal
- Master clock slave clock
- Optional extras (IP rated enclosures)
- Optional extras (flip flop time/date ,time/date/temp, date/temp, time/temp, Shift alarms)
- Temp signal conditioners (Novus Txblock)

Big digit Displays

- Inputs (4-20mA) Stop watch, up counter, down counter, event counter, frequency meter
- Size variants (digit height 100mm or 180mm)
- Digit count 2 , 4 , 6
- Enclosure options (colour) (Matt black or beige)(include IP • rated enclosure?)
- Bracket options (wall mount with swivel or panel mount)
- Setting options: Remote, Cabled remote, Side Panel, Data • feed
- Optional extras (485 relay)
- Vinyl lettering

Products currently available

- Elapsed time counters (Stop, Start & Count)
- Up/down counters
- 24 hour clocks



100 or 180mm Digit Height Options

JOHANNESBURG



MIMIC COMPONENTS

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CAPE TOWN



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