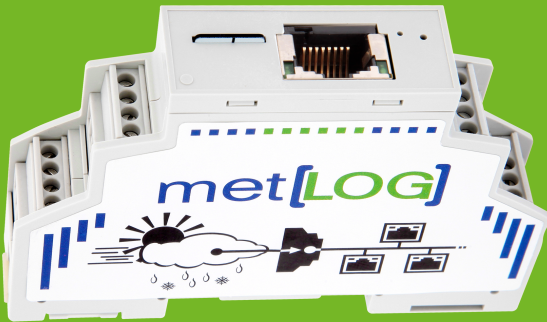


**met[LOG] with met[APP] DATA LOGGER**

-  ECONOMICAL
-  DATA LOGGER
-  ETHERNET
-  LP  
LOW POWER
-  RS485  
INPUT



**Smart Serial Solution**

The data logger met[LOG] and its browser app met[app] quickly and easily transfer your weather data into your network (LAN). The met[LOG] has an autoconfiguration via plug & play for the uncomplicated commissioning of the serial LAMBRECHT meteo sensors.

**Browser App met[APP]**

The browser app which is integrated in the met[LOG] for easy visualisation of the current meteorological data in your network. Platform-independent on your PC, tablet or smartphone.

- Displays the instantaneous values of your LAMBRECHT meteo station
- Exports the measured values stored by the met[LOG]
- Configures the met[LOG]

**Features and advantages:**

- Real-time access to measurement data via integrated web server, visualised in your browser with met[APP]
- met[LOG] calculates trends and patterns, and automatically performs corrections based on altitude and air pressure
- Thanks to its digital outputs the met[LOG] immediately issues a warning or raises an alarm
- Plug & play: Auto-configuration by push of a button allows full working capability within seconds
- Various combinations are possible: 7 interfaces allow connection of 4 analog and 3 serial sensors

**APPLICATIONS**

- Building automation
- Universities
- Industry
- Spas

Professional Line	met[LOG] with met[APP]
Id-No.	00.95800.010000 (incl. SD card)
Measuring range	Voltage input: 0...10 V
Accuracy	Analogue: 12 bit

Continued on page 2

Professional Line	met[LOG] with met[APP]
Signal input	4 analogue/ digital input • range: 0...10 V (configurable) • $R_i \geq 10 \text{ K}\Omega$
Output	4 digital output • digital output max. voltage: $V_0-0.1 \text{ V}$ up to $V_0$ • max. 0.7 A
Protocols	Modbus • NMEA • WIMWV • WIMWD • WIMTA • WIMMB • WIMHU • WIXDR • rain[e]-talker • SDI-12 on RS 485 (rain[e])
Interface	3 x RS 485 • A+, B-; half duplex
Operating conditions	-40...+85 °C
Supply voltage	11...32 VDC
Power consumption	500 mW typically (no digital output active)
Storage capacity	Accessory: 8 Gb SD card, Id.-No. 32.95800.010000 (inclusive)
Storage interval	1 min • 2 min • 5 min • 10 min
Ethernet	10/100 BaseT • connector RJ45 shielded
Data evaluation	integrated web page for visualisa • configuration web page
Dimensions	17.8 x 89 x 60 mm
Housing	1 sec • configurable
Weight	62 g
Standards	EMC: IEC 61000-4-2 up to 8 kV
Included in delivery	automatic configuration of connected serial LAMBRECHT sensors: rain[e], EOLOS, WENTO, ARCO and THP sensor as well as all Modbus sensors of LAMBRECHT
Options (order separately)	30.95800.015000: power[cube] 150W incl. met[LOG] 30.95800.048000: power[cube] 480W incl. met[LOG] 30.95800.115000: power[cube] WiFi Edition incl. met[LOG]

As of: 25.11.2024

**power[cube]** POWER SUPPLY UNIT



Power pack for all weathers

The compact cube is an all-weather-resistant power pack and rounds off for example the rain[e] station regarding power supply and communication. Beside the data logger met[LOG] it protects the net adapter (24 V/ 150 W) and the WiFi router against all weather influences.

- Low space requirement
- Easy installation
- Very robust
- Universal use for various sensors
- Housing made from UV and weather-proof material

**APPLICATIONS**

- Building services
- Agricultural meteorology
- Industry and hydrology
- Artificial snowmaking
- Traffic meteorology

Professional Line	power[cube]
Id-No.	00.14966.715000: power[cube] Power supply 24 V/ 150 W incl. terminal block 00.14966.724000: power[cube] Power supply 24 V/ 240 W incl. terminal block 00.14966.748000: power[cube] Power supply 24 V/ 480 W incl. terminal block 30.95800.015000: power[cube] 24 V/ 150 W incl. data logger met[LOG] 30.95800.048000: power[cube] 24 V/ 480 W incl. data logger met[LOG] 30.95800.115000: power[cube] 24 V/ 150 W incl. data logger met[LOG] and WiFi router
Output	24 VDC • 24...28 V
Output current	max. 6,5 A
Input voltage	90...264 VAC
Input frequency range	47...63 Hz
Rated power	156 W
Operating conditions	-20...+60 °C • Storage temperature: -40...+85 °C
Dimensions	approx. 190 x 190 x 190 mm
Housing	made from UV and weather-proof material
Options (order separately)	32.14966.030000: Mast attachment for power[cube]

As of: 25.11.2024

# Ser[LOG] DATA LOGGER - AVAILABLE FROM JANUARY 2025!



The next generation of scalable meteorological communication platforms

Reliable data logging is crucial for an effective weather monitoring solution. With its next-level features, the advanced Ser[LOG] data logger sets new standards in data acquisition technology. With a variety of customizable configurations and state-of-the-art communication interfaces, it is the perfect solution for your measurement needs. Existing sensors, including those from other manufacturers, can be easily added and used with the included sensor library. The Ser[LOG] data loggers are ideal for setting up even large weather measurement networks.

- WMO-compliant wind measurement and gust calculation
- Optimized internal system monitoring for early problem detection
- Maximum versatility with 250 simultaneous measurements
- Dual modem support for reliable and seamless data transmission
- Encrypt, protect and securely transfer data online with TLS 1.3
- 70 % less energy consumption than its predecessor in low-power mode

## APPLICATIONS

- Environmental and agricultural networks
- Meteorology
- Universities
- National governments
- Industry
- Health resorts
- Aviation

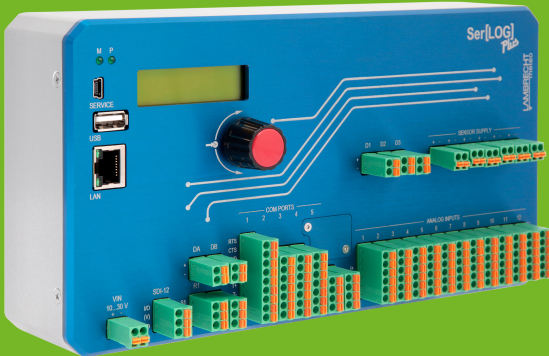
Professional Line	Ser[LOG]
Id-No.	00.95770.300000
Signal input	2 status inputs
Output	2 potential-free, programmable relays; expandable up to 10 relays with a maximum of 8 Modbus relays
Interface	1 x SDI-12; 5 x RS 485; 6 x RS 422; 4 x RS 232; USB Device; USB Host; Ethernet
Operating conditions	-30...+70 °C; 5...95 % r. h. (non condensing)

Continued on page 2

Professional Line	Ser[LOG]
Supply voltage	10...30 VDC
Current consumption	Low power mode: 12 mA at 12 V; from 34 mA (12 V) up to 200 mA (12 V) - configuration-dependent
Storage capacity	1 year in ring memory (8-byte IEEE real format) - configuration-independent
Ethernet	100 MBit; connector RJ45
Dimensions	135 x 135 x 72 mm
Weight	approx. 0.9 kg
EMC standards / Electrical safety	IEC 60945; RS422 and RS485 up to 2.5 kV isolated; all interfaces with 15 kV ESD protection
Cyber security	TLS 1.3: FTP / FTPs; email; MQTT; HTTP post; SSH: SFTP
Included in delivery	USB cable; Ser[LOG] Commander management app

As of: 25.11.2024

# Ser[LOG] Plus DATA LOGGER



One for all

Ser[LOG] Plus is the most versatile data logger. Due to its convertibility through configuration and scaling, you can easily adapt the Ser[LOG] Plus to the specific challenges of your daily measurement tasks.

### Overview:

- Serial and analog sensors connectable
- Handles up to 60 parameters
- Many state-of-the-art communication interfaces
- Extensive sensor library, can be freely configured and scaled by the user
- Formula collection and free formula parser
- Alarm system for 10 warning channels using built-in and external relays
- Wide range of options for exchanging information
- Interference-proof due to shielded aluminum housing
- User-friendly with free access to all terminals and controls

### APPLICATIONS

- Environmental and agricultural networks
- Meteorology
- Universities
- Authorities
- Industry
- Health resorts
- Air traffic control

Professional Line	Ser[LOG] Plus
Id-No.	00.95770.100000
Resolution	16 bit ADC (SAR) with up to 1024-times oversampling • Processing in 8-byte IEEE real format
Signal input	SDI12 • 12 analog/ 5 digital inputs
Output	2 potential-free, programmable relays • via Modbus expandable to 10 relays
Interface	4 x RS 485 • 5 x RS 422 • 4 x RS 232 • USB device • USB host • Ethernet
Operating conditions	-30...+70 °C • 5...95 % r. h. (not condensing)
Supply voltage	10...30 VDC
Current consumption	from 133 mA (12 V) up to 350 mA (12 V) depending on configuration
Storage capacity	1 year in ring memory (8-byte IEEE real format) - not depending on configuration
Data transfer	communication paths (see overview)
Ethernet	100 MBit • connector RJ45
Dimensions	125 x 238 x 72 mm
Weight	approx. 1.3 kg
Standards	EMC: IEC 60945
Included in delivery	USB cable • Ser[LOG] Commander management app

As of: 25.11.2024

# Ser[LOG]-NAV DATA LOGGER



Reliable data management for maritime applications

Ser[LOG]-NAV is a configurable and adaptable data acquisition and monitoring system. The data logger professionally records weather data, heading, course, and speed data and integrates with on-board computers and navigation systems to inform control of the ship. Calculations like True Wind are automatically calculated. Hardware and software merge seamlessly and provide to protect passengers, crew, and cargo.

- 6 serial multifunctional interfaces for data input and data output
- True Wind calculations and multi-wind sensor support
- Manual/automatic dual wind sensor selection with windward and leeward detection
- Calculates additional parameters, including dewpoint, absolute humidity, and wet bulb temperature
- Supports individual ship specific disturb sector correction
- Alert system for up to 10 alert channels using multiple relays

## APPLICATIONS

- Inland vessels
- Cruise ships
- Tankers
- Container ships
- Luxury yachts

Professional Line	Ser[LOG]-NAV
Id-No.	00.95770.500000
Signal input	2 status inputs
Output	2 potential-free, configurable relays
Interface	5 x RS 485 or 6 x RS 422 or 4 x RS 232 USB device and USB host
Operating conditions	-30 to +70 °C; 5 to 95 % r. h. (non-condensing)

Continued on page 2

Professional Line	Ser[LOG]-NAV
Supply voltage	10...30 VDC
Power consumption	from 34 mA (12 V) up to 240 mA (12 V) depending on configuration
Storage capacity	1 year in ring memory (8-byte IEEE real format)
Ethernet	100 Mbit, Connector RJ45
Design	mounting bracket for 35 mm DIN rail
Dimensions	135 x 135 x 72 mm
Housing	Aluminum
Weight	approx. 0.9 kg
EMC standards / Electrical safety	IEC 60945; RS 422 and RS 485 up to 2.5 kV isolated; all interfaces with 15 kV ESD protection

As of: 25.11.2024



## METEO-LCD-IND DIGITAL INDICATOR



### The multi talent

This indicator is extremely versatile and flexible. The high contrast display can be adjusted by a dimmer to the prevailing lighting conditions. The compact design proves to be very advantageous and cost efficient when mounted into control panels. The instruments are reliable and cross-linkable. They can, when series connected, display all 6 measured main parameters at the same time.

- Big, graphic, high-resolution display with background illumination
- Contrast and brightness adjustable
- Variety with waterproof front plate design
- Low mounting depth
- Galvanically separated supply and signal channels
- Momentary, mean and extreme values

### APPLICATIONS

- Surveillance monitoring stations
- Airfields
- Industrial and chemical plants
- Vehicles for civil defense and disaster control
- Mobile towers
- Ships

Professional Line	METEO-LCD-IND
Id-No.	00.14742.401002 (14742) Meteo-LCD-IND 00.14742.111002 (14742 W) Meteo-LCD-IND/ W with water resistant design for front plate in the style of IP66
Parameter	Wind direction and wind speed • air temperature • air humidity • air pressure • dew point temperature
Measuring range	Depending on the digital input signals of the attached sensors
Accuracy	Depending on the digital input signals of the attached sensors
Protocols	WIMWV • WIMTA • WIMHU • WIMMB • NMEA 0183
Interface	RS 422/ 485
Measuring cycle	1 Hz • Baud rate: 4800...38400
Range of application	Temperatures 0...+50 °C • humidity 0...95 %
Supply voltage	9...36 V DC (2.5...5 W) • isolation voltage 500 V DC
Display	Digital • partially analogue display in the compass rose
Dimensions	(14742): 144 x 144 x 72 mm • (14742 W): 160 x 160 x 78 mm
Housing	Standard housing for installation in to control panels • IP 23 (indoor)
Weight	(14742): 0.8 kg • (14742 W): 1 kg
Connectable to	All sensors with NMEA 0183-protocol and RS 422

As of: 25.11.2024

# METEO-LCD-NAV DIGITAL INDICATOR FOR SHIPS



## Big multifunctional display

The steadfast multi talent has passed the shock and shake tests (acc. to BV 0440 and BV 0430) for naval applications on the high seas with bravura. The indicator 14742 is multifunctional, flexible and compact. It is an essential part of the proven LAMBRECHT system solutions with Ser[LOG] and various other sensors. The high contrast graphic LCD display, the low mounting depth and the integration of various devices into a network are the most important features of this highly qualified indicator.

- Display of specific ship parameters
- Shock class A
- Big multifunctional display with adjustable background illumination
- Variety with waterproof front plate design
- Galvanically separated supply and signal channels
- Momentary, mean and extreme values

## APPLICATIONS

- Drilling platforms
- Container ships
- Maritime applications

Professional Line	METEO-LCD-NAV
Id-No.	00.14742.301002 Meteo-LCD-NAV 00.14742.011002 Meteo-LCD-NAV/W: with water resistant front plate design in the style of IP 66
Parameter	Ship-specific data: speed & heading • roll & pitch • true as well as relative wind direction and wind speed • air temperature • air humidity • air pressure • dew point temperature
Measuring range	Depends on the digital input signals of the attached sensors
Accuracy	Depends on the digital input signals of the attached sensors
Protocols	WIMWV • WIMWD • WIMTA • WIMHU • WIMMB • PPRP • HEOSD • NMEA 0183
Interface	RS 422/ 485
Measuring cycle	1 Hz • Baud rate: 4800...38400
Range of application	Temperature 0...+50 °C • humidity 0...95 %
Supply voltage	9...36 V DC (2.5...5 W) • isolation voltage 500 V DC
Display	Digital display • partially analogue display in the compass rose
Dimensions	(14742): 144 x 144 x 72 mm • (14742 W): 160 x 160 x 78 mm
Housing	Standard housing for installation in to control panels • IP 23 indoor
Weight	(14742): 0.8 kg • (14742 W): 1 kg
Connectable to	Combined Naval Wind Sensor (24513) • all sensors with NMEA 0183 protocol and RS 422

As of: 25.11.2024