

# SYNMET DATA LOGGING SYSTEMS

SYNOptical and METeorological measuring systems



Three names – one program...

**LOG** stands for simple, logic data**LOG**ger, **IND** for **IND**ustrial application and **NAV** for application in **NAV**igational systems in maritime navigation. Based on experience, specific characteristics and features are optimally adjusted to any individual field of application. All SYNMET systems are pre-configured and contain an individual, meaningful documentation.

- modular construction favors standard as well as client specific systems
- flexible and functionally extensible by modules
- integrable air pressure sensors
- EMC save aluminum housing
- separate clip chamber and EMC cable sockets
- integrated accumulator guarantees uninterrupted power supply (depending on model)

The following modules can be additionally integrated into the SYNMET data logger (see following pages):

Id-No.	Code	SYNMET hardware modules overview	LOG-D	LOG-DX	IND	NAV
32.95527.007 000 (95527 U7)		Heating power supply PSH · 100...240 V <sub>AC</sub> / 24 V <sub>DC</sub> · 30 VA	-	-	x	x
32.95660.004 000 (95660 U4)		DAC · for 8 analog outputs · galvanically isolated · for indicators or SPS	x	x	x	x
32.95660.011 000 (95660 U11)		RS quad interface · serial · galv. isolated for sensors or further data interfaces	x	x	x	x
32.95661.009 000 (95661 U9)		ESD Overvoltage protection · for all digital and analog sensor inputs	x	x	x <sup>1)</sup>	x <sup>1)</sup>
32.95665.008 030 (95665 U8c)		SI sensor interface · e.g. DC/DC-converter, RS485	x	x	-	-
32.95660.008 060 (95660 U8f)		Air pressure sensor ● 600...1100 hPa	-	-	x	-
32.95665.020 010 (95665 U20a)		Air pressure sensor ● 600...1100 hPa · ± 0.5 hPa	x	x	-	-
32.95665.020 000 (95665 U20)		Precision Air pressure sensor ● 35...1310 hPa · ± 0.1 hPa	x	x	x	-

<sup>1)</sup> already integrated in basic models of data logger





### Much inside...

has the robust SYNMET-version for industrial application under rough conditions. Its standard range is configured to take all significant events into account. A large amount of specific applications can be realized with high efficiency. Easy maintenance as well as modular upgrade stand for future orientation.

- EMC safe, weather proof and compact aluminum housing
- 19"-industrial standard for quick service reaction
- fail-safe through independent power supply and module exchange
- air pressure sensor can be integrated
- integrated USV-accumulator for charging management
- integrated SI-card and solar panel port

**wide range of application on-shore** • rough industrial surroundings • measuring systems

### Professional Line

Range of application:

Accuracy:

Resolution:

Measuring interval:

Storage:

Inputs:

Interfaces:

Supply voltage:

Housing/ Weight:

Standards:

Accessories:

Varieties:

**00.95661.232 110**

**00.95661.236 110**

**00.95661.239 110**

### Series (95661) SYNMET-IND

temperatures -30...+70°C • humidity 0...100% r. h.

depending on parameters and sensors | 12-Bit-ADC • 8 µs converting time

14-Bit-ADC • oversampling

1...60 s • mean values 1...60 min

dyn. organized ring storage for mean and extreme values | 512 KB RAM • battery-backed

12 analog • 5 digital • universal sensor inputs | provable as/ for Pt100 • voltage •

current • frequency • impulse • status • serial sensors

see varieties

18...32 V<sub>DC</sub>

aluminium • 306 x 241 x 220 mm (without sockets) • 8 kg • 20 EMC cable sockets • USV-

accumulator • ESD-module • optional with integrated power supply for heated sensors

EMC EN 50081/ 82 • ESD protection IEC 1000-4-2/-4-5 • MIL STD 3015.7 • Weather

reports according to WMO No. 306

sensors • cables • [power supplies](#) • modules • modems • [software](#) • PC • masts • [indicators](#)

**(95661.2) SYNMET-IND** • SI-module DC 1/2 • COM 1: RS 232/422 • COM 2: RS 232

**(95661.6) SYNMET-IND** • SI-module DC 1/2 • COM 1: RS 232/422 • COM 2: RS 232/422/485

**(95661.9) SYNMET-IND** • SI-module DC 1/2 • COM 1: RS 232/422 • COM 2: RS 232/422/485

• relay output • DC3-module-24V

Further data see separate folder.

