

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 _{AC} / 24 V _{DC} · 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 ¹⁾	x ¹⁾
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	-

¹⁾ already integrated in basic models of data logger



Data logger for universal application on shore

Dialog and consensus...

are given in multifunctional data logging and processing. The system's components' own intelligence and their perfect combination offer a high degree of flexibility and reliability. The galvanic separation of the measuring system, remote configuration and diagnosis, as well as limit value and alarm control are representative of a multitude of modern future oriented features.

- keyboard and LCD for control
 - air pressure sensors can be integrated
 - EMC safe, two-piece aluminum housing divides high quality electronics and installation
 - inexpensive because of compact, weather proof light weight construction
 - easy installation by spring power plug
 - easy software update by FLASH technology
- on-shore application • [agricultural meteorology](#) • hydrology
 • dumping grounds • SYNoptic and METeoroological weather stations



Professional Line	(95665.4) SYNMET-LOG-DX	Id-No. 00.95665.400 000
Range of application:	temperatures -30...+70°C • humidity 0...100% r. h.	
Accuracy:	depending on parameters and sensors • 12-Bit-ADC • 8 µs converting time	
Resolution:	14-Bit-ADC • oversampling	
Measuring interval:	1...60 s • average value 1...60 min	
Storage:	dynamically organized ring storage for mean and extreme values • 512 KB RAM • battery-backed	
Inputs:	12 analog • 5 digital • universal sensor inputs • <u>provable as/ for</u> Pt100 • voltage • current • frequency • impulse • status • serial sensors	
Interfaces:	2 x COM: 1x RS 232/422/ (485 optional on request) • 1 x RS 232	
Supply voltage:	18...32 V _{DC}	
Housing/ Weight:	aluminium • 306 x 241 x 136 mm (without sockets) • 8 kg • 20 EMC-cable sockets	
Standards:	EMC EN 50081/ 82 ESD-protection IEC 1000-4-2/-4-5 • MIL STD 3015.7 • Weather reports according to WMO No. 306	
<u>Accessories:</u>	sensors • cables • power supplies • modules • modems • software • PC • masts • indicators	
<u>Variety:</u> 00.95665.100 000	(95665.1) SYNMET-LOG-D variety just as SYNMET-LOG-DX, but with USV-accumulator and load management	

Further data see separate folder.

