













Picture without housing cover

# SYNMET-LOG

Configurable and modular data logging and processing system - the standard for industrial applications under rough conditions.

The perfect combination of the system's components offers a high degree of flexibility and reliability. The two-piece housing divides high quality electronics and installation. The galvanic separation of the measuring system, remote configuration and diagnosis are representative of a multitude of modern future-proof features.

The sturdy and reliable data logger in an aluminium diecast housing with EMC cable glands has free configurable sensor inputs.

- 12 analogue sensor inputs for voltage, current, resistance
- 5 digital inputs: 3 x for frequency, impulse and status, 2 x for status only
- Integrated sensor supply and optional barometric pressure sensor
- 1 year ring buffer
- 17 sensor channels and 43 virtual channels
- Able to communicate via Internet with a router \*
- LAN integration via Ethernet-Interface \*
- Integrated sensor and hardware control

# **New Features SYNMET-LOG**

#### Id-No. 00.95665.600 000

- System configuration with USB stick
- Reading data with USB stick
- USB host
- ► USB client (internal)
- Optional Ethernet Connection Kit: Simultaneous communication with up to 10 users
- 16 bit-sampling ADC for bipolar and unipolar measurements
- Resolution: 16 bit-ADC with 300...1024-fold oversampling
- Proven installation concept

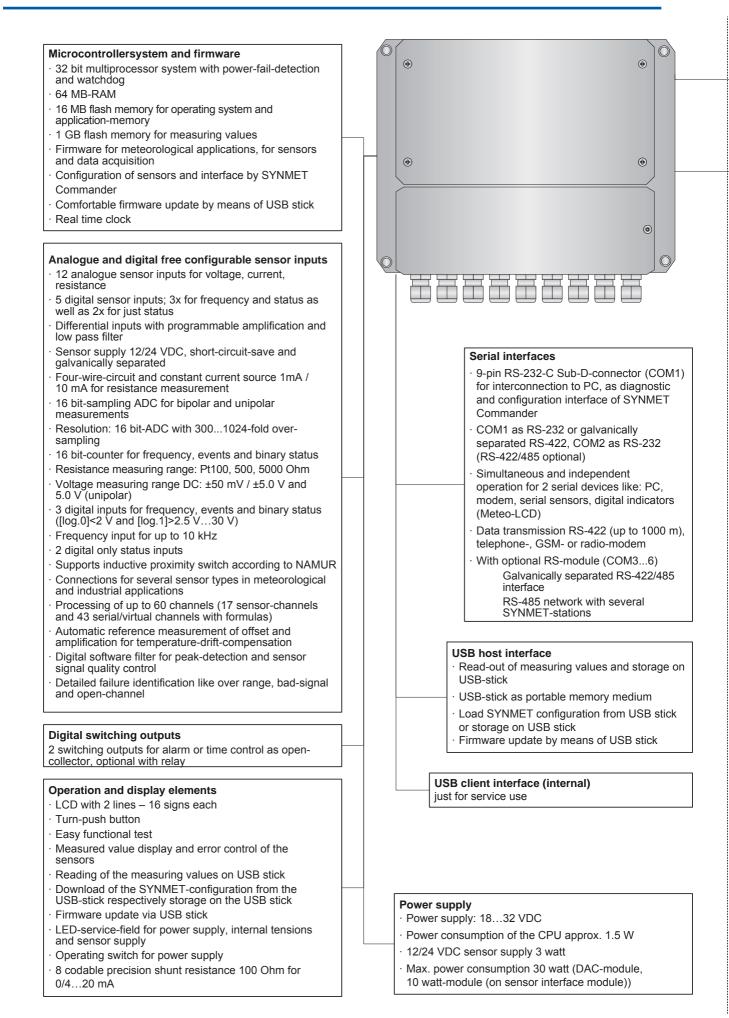
### Applications

- Rough industrial surroundings
- · Under all climatic conditions
- Agricultural Meteorology
- Measuring networks etc.

\* Ethernet connection kit required

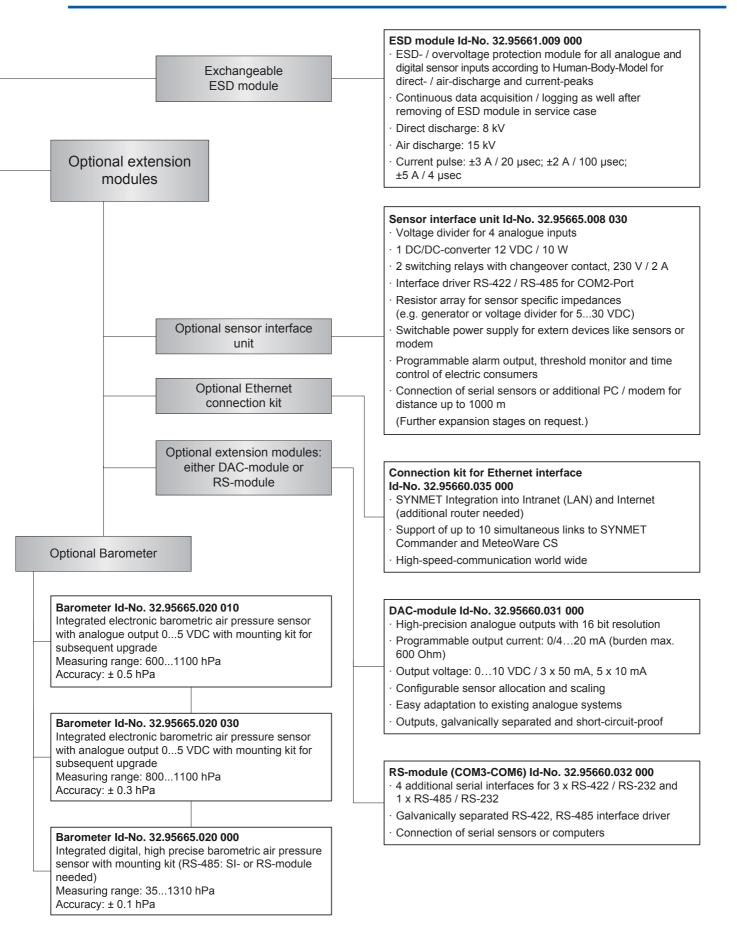
















# Available configuration software SYNMET Commander

#### Id-No. 36.09335.000 001

- PC software for WINDOWS 2000/ XP/ Win7
- Call of stored measured values and storage as CSV file
- Visualisation of the CSV file
- Centralized station management and remote maintenance via modem and Internet
- Free definition of new analogue and digital sensors
- Configuration of the SYNMET:
  - Set measuring value cycle 1 Hz or 2 Hz
  - Interface parameters
  - Determination mean value times 1, 2, 3, 5, 6, 10, 15, 20, 30, 60 minutes
  - Optional global acquisition of the extreme values
  - Setting of the communication parameters of each interface:
    - Baud rate 150...115200 baud
    - Allocation of communication protocols to interfaces (NMEA, SNAP, serial pressure sensor)
    - Determining of IP address, Sub-Net-Mask, gateway address
    - Communication port
  - Allocation of sensor parameters to the individual channels
  - · Definition of serial and virtual sensors
  - Selection of up to 2 wind sensor pairs for moving mean values
  - Definition of the switch outputs for process control, error control or measuring range control
  - If DAC module is available: allocation of channels to the analogue outputs and scaling of the outputs
  - · Definition of the NMEA data output
  - · Setting of date and time

## General environmental conditions

- Temperature operation range: -30...+70 °C
- Relative air humidity operation range: 0...100 % r.h. (non-condensing)

#### Housing

- Aluminium diecast housing with 20 EMC cable glands, dimensions 306 x 241 x 136 (W x H x D), weight 8 kg
- Appropriate for mast-outside-installation over the whole temperature range
- Divided housing for the electronic module and the installation room
- Terminal plugs for extension modules (DAC- and RSmodules)

#### Associated system components

- Plug connector power supply unit or power supply unit
- Several sensors incl. cable
- · Mast system stationary and transportable
- Interface-converter and modem
- PC software for WINDOWS 2000/ XP/ Win7

#### **Standards**

- Construction and low voltage standard according to 72/23 EWG and VDE 100
- EMC directive according to EN 50082/81, interference immunity and interference emission
- ESD protection according to IEC 1000-4-2/1000-4-5 and MIL STD 3015.7



Quality System certified by DQS according to DIN EN ISO 9001:2000 Reg. No. 003748 QM Subject to change without notice.

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