



# Datalogger with 6 Signal Channels OC700



- √ 6 universal Analog Inputs expandable by additional 8 Channels
- √ 60mV to 30V DC Ranges
- √ 0/4-20mA
- √ 0...390 Ohm and 0...3900 Ohm
- √ Pt-100, Pt-1000
- √ Ni-1000\_5000, Ni-1000\_6180
- √ DIN Thermocouples
- √ Analog Output
- √ Supply 80-250V DC/AC or 24VDC
- √ For DIN 35mm Rails

- Setting of parameters with front keys
- Setting of parameters from PC
- TFT Color Display with information about the entire system
- Ethernet 100 Base
- Data Logging at a *microSD* Card up to 32GB
- Logging Start-Stop with the front key with external signal
- Date and Time from internal RTC
- Direct Data Transfer into Excel
- Five Relays or Transistor Outputs
- Analog Output

**OC700** is a programmable Datalogger designed for connection to analog Process Signals, Resistors, Thermocouples and RTD Thermometer. The basic module contains 6 Signal Channels. Two Channels are available for mV Signals or Thermocouples, the remaining four can be used for Process Signals, RTD and Resistors. All inputs have common GND.

The measured signals are stored at a *microSD* Memory Card and can be directly downloaded into Excel via Ethernet. The Software for the download is a part of the shipment.

The *microSD* Card can be taken out from the instrument and read directly from the PC Card Reader. The beginning and the end of the record can be determined by the front key or by an external signal or mechanical contact at the Pin 4. The recording will start with OK and stopped with ESC. By using an external signal the data are recorded as long as the signal at Pin 4 is present or the contact closed. The control signal is identical with the power supply (80-250V AC or 12-30V DC).

Analog Outputs and up to 5 Relays or Open Collectors can optionally be ordered. They can be freely assigned to any of the six signal channels. By using the analog output, three Set Point Relays or Transistors can be used.

The Datalogger channel number can be enlarged by additional 8 channels by using an expansion module **OC700-D8** which will be connected with a communication cable to the main module OC700. The channels can be loaded with signals specified under OC700-D8 below.

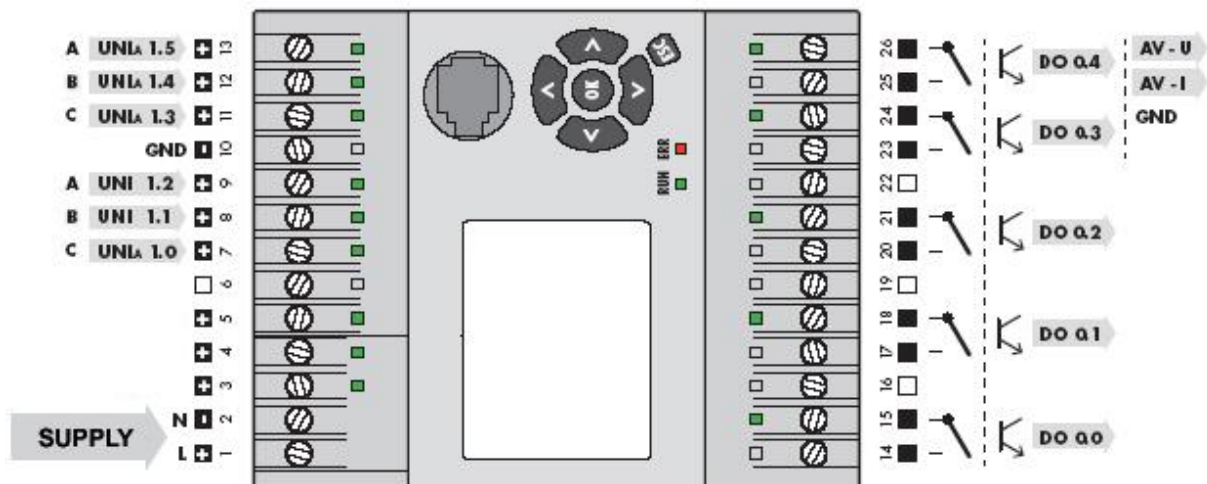
## SPECIFICATIONS OC700

| INPUTS                          |   |
|---------------------------------|---|
| Number of channels (Inputs)     | 6   |
| Ranges                          | 0 ... 60/450mV, 0 ... 2.8/10/30 V<br>0/4 ... 20mA<br>Pt-100, Pt-1000, Ni-1000<br>0 ... 390 Ohm, 0 ... 3900 Ohm<br>Thermocouples: J/K/T/E/B/S/R/N/L, KTY81-210/220<br>Two channels are intended for all signal types. Four channels are available for all signal types with exception of 60mV and T/C. |
| Resolution                      | 12 Bit  |
| Overload                        | 10x   |
| Accuracy                        | 0.2% from range (with filter 100ms)   |
| Recording Rate                  | 10ms up to 5h selectable  |
| Record Control                  | Front keys OK/ESC, external Signal or closure contact at Pin 4.   |
| Indication of activated channel | LED   |

| SPECIFICATIONS              |  |
|-----------------------------|--|
| Communication               | Ethernet 100 Base, RS485   |
| Communication with OC700-D8 | CANBUS @ 1Mbit/sec. over 40 meters                                 |
| Module width                | 72mm, for 35mm Rails   |
| Power required              | 5VA  |
| Power supply                | 12 ... 30V AC/DC, 80 ... 250V AC/DC                                |
| Working Temperature         | -20 ... 60°C   |
| Protection (cover)          | IP 40  |
| Dielectric strength         | 4kV @ 1 Min. (Data Bus-Output).<br>2.5kV @ 1 Min. (Data Bus-Input) |
| Insulation Resistance       | For pollution degree II, Kat. III, 300V [ZI], 150V [DI]            |
| Electric safety             | EN 61010-1, A2 EMC EN 61326-1                                      |

| OUTPUTS - Option |   |
|------------------|---|
| Set Point        | 5 Relays with closure contacts 10A, 250VAC / 24VDC, or 5 open collectors 30V-300mA                    |
| Analogue Output  | 0 ... 10V or 4 ... 20mA. Three Relays or Transistors are available when the analog output is ordered. |

## TERMINALS OC700



# Expansion Module with 8 Signal Channels OC700-D8

- ✓ 8 universal Analogue Inputs
- ✓ 60mV to 30V DC
- ✓ 0/4-20mA
- ✓ 0...390 Ohm and 0...3900 Ohm
- ✓ Pt-100, Pt-1000
- ✓ Ni-1000\_5000, Ni-1000\_6180
- ✓ DIN Thermocouples
- ✓ Communication and Supply from OC700



## SPECIFICATIONS OC700-D8

### INPUTS

|                                 |   |
|---------------------------------|---|
| Number of Inputs (Channels)     | 8   |
| Ranges                          | 0 ... 60/450mV, 0 ... 2.8/10/30 V<br>0/4 ... 20mA<br>Pt-100, Pt-1000, Ni-1000<br>0 ... 390 Ohm, 0 ... 3900 Ohm<br>Thermocouples: J/K/T/E/B/S/R/N/L, KTY81-210/220<br>The channels can be free loaded with the above signals |
| Resolution                      | 12 Bit. <i>Option 24 Bit (OC700-D2 with only 2 Signal Channels)</i>   |
| Overload                        | 10 x  |
| Junction Compensation           | Internal build-in   |
| Accuracy                        | 0.2% from range   |
| Recording rate (in OC700)       | 10ms to 5h selectable   |
| Indication of activated channel | LED   |

### SPECIFICATIONS

|                          |   |
|--------------------------|---|
| Communication with OC700 | CANBUS @ 1Mbit/sec. over 40 Meter                       |
| Module width             | 36mm, for 35mm rails                                    |
| Power required           | 150mA   |
| Power supply             | From the Bus  |
| Working Temperature      | -20 ... 60 °C   |
| Protection (cover)       | IP 40   |
| Dielectric strength      | 2.5kV, 1 Min. (Data Bus - Input)                        |
| Insulation Resistance    | For pollution degree II, Kat. III, 300V [ZI], 150V [DI] |
| Electric safety          | EN 61010-1, A2      EMC EN 61326-1                      |

## TERMINALS OC700-D8

