

Eight Channel Monitor - Datalogger OC 7052

- ✓ 8 Signal Channels, 11869 Memory Cycles
- \checkmark 0/4-20mA or ± 2V DC
- ✓ Pt-100 two or four wire connection
- ✓ DIN Thermocouples
- ✓ Storing Interval 5 second to 2 hours
- ✓ Trigger Input, automatic Storing
- ✓ Free Scalable Display
- ✓ Memory Format: Value, Date and Time
- ✓ One Set Point
- ✓ RS232 and RS485



Model OC7052 is an eight channel Monitorprocess Datalogger for analogue signals such as 0/4-20mA, DC voltages, Pt-100 or Thermocouples. The measured signals are scanned displayed in required and process units at the digital display. The number of signal channels can be selected from 1 to 8.

The inputs can be assigned to different signal types such as DC voltage and DC currents, RTD and Thermocouples or any other combination. Each signal channel is individually programmable.

The inputs are scaled, multiplexed, digitized and shown at the display.

The keyboard at the front permits entry into the menu and setting of process parameters in each signal channel individually. The menu contains the measuring storing range, intervals, display resolution, setting of the set point, setting of the real time clock with date and time and selection of the serial data ports.

For temperature measurements the DIN linearizing tables for Pt-100, Pt-200, Ni, Thermistor and Thermocouples are menu selectable. The thermocouples can be used with internal or external cold junction compensation.

The channels can be scanned manually from the keyboard or automatically in preselected intervals. The data storing can be switched-off or activated in intervals from 5 sec. to 2 hours. A trigger input is available for initializing of the storing cycles. The storing can also be initiated from a set point or from a preprogrammed date and time.

One Set point SP1 activates an open collector transistor or a mechanical relay and can be free assigned to any of the signal channels.

Two serial data ports RS232 and RS485 are options. RS485 has a programmable address. The baud rate can be set from 1200 to 38400 baud.

All parameters can be set from the keyboard or via the serial data port. A Soft manager OrbCom is enclosed to each Datalogger and permits communication with PCs.

The stored measurements in the Memory can be transferred into the PC and handled under Windows. The communication is bi-directional. For easy handling, the Datalogger parameters can be set in the PC and transferred via the serial port to the Datalogger and stored there.

The display shows the measured values and the channel numbers 1-8. It can also be set to display only one channel or to show the time or the date.

The memorizing of the measurements can be switchedoff and the instrument acts as eight channel Data Monitor.

The Datalogger is enclosed in a DIN 48x96mm cabinet with IP65 front protection.

SPECIFICATIONS OC 7052

DISPLAY

± 0.00000 ... 999999, 7 Segment red, 14.7mm. For temperature measurements the display resolution can be set for 0.1°C or 1°C. The display intensity is adjustable with the keyboard.

INPUTS

DC Signal Inputs

0/4-20mA or ± 2 V DC differential. Eight Inputs for DC Signals in two wire termination.

Pt-100, Pt-200

Two- or four wire termination. All sensors are serially connected and powered by 1mA.

T/C Thermocouples

E, J, K, S, B and T. Eight differential signal inputs for 8 Sensors. Build-in cold junction compensation can be used or switched-off when external compensation is considered.

Auxiliary Inputs

Four digital auxiliary Inputs are available for initializing of the memorizing cycle. The memorizing starts when one of the inputs is closed with GND.

Linearizing

The linearizing accuracy is $\pm 1^{\circ}$ C, ± 1 Digit.

AD CONVERTER

18 Bit ADC, 15 samples/sec. Accuracy: ± 0.05% from FS, ±1

Digit

TempCo: ± 25 ppm/K

SCALING

The minimum and the maximum input signal values in each signal channel can individually be assigned with the keyboard to any two desired display readings.

This permits connection of variety of signal sources.

MEMORY

4 MBit (512k x 8 Bit) Flash. 4 Byte/Channel are required for one memory cycle. This results in totally 32640 available cycles. If all 8 Signal channels are activated, the total memory capacity is 11869 cycles.

Storing Interval

Selectable from 5sec. to 2h.

Trigger Input

The memorizing will be initialized when closed to GND.

Format

Measured value, Date, Time, Channel Number.

SET POINT SP

Adjustment within the entire Display range ± 999999.

Output: NPN open collector 60V/100mA or mechanical Relay with closure contacts 5A-230VAC.

SERIAL PORTS

RS232 and RS485 two or four Terminals, 8 bit, no Parity, 1 Start, 1 Stop, 1200-38400 bd. The address 0 activates RS232. RS485 has addresses 1-31.

SUPPLY

115V / 230V, ± 15%, 48-60 Hz, 8VA.

DC-Option: 9 ... 36V DC, 4W.

TERMINALS

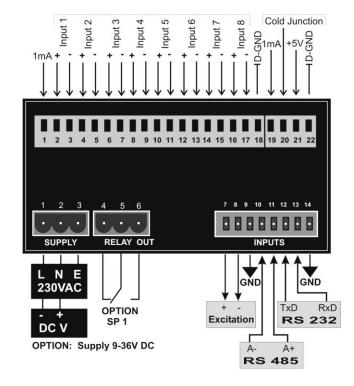
Pluggable Screw Terminals

CABINET IP65

DIN 48x96x150 mm (H x W x D)

EXCITATION

5V to 24V/40mA adjustable with internal potentiometer.



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