

# **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 1 second to 2 hours
- ✓ Trigger Input, automatic Storing
- ✓ Free Scalable Display
- ✓ Memory Format: Value, Date and Time

an eight

Monitor-

required

individually

scaled,

signal

display

✓ One Set Point

Model OC7052 is

displayed

channel

and

to 8.

channel

The

programmable.

at the display.

parameters

storina

inputs

✓ RS232 and RS485

process Datalogger for analogue signals

such as 0/4-20mA, DC voltages,

Pt-100 or thermocouples. The

measured signals are scanned

process units at the digital

display. The number of signal

channels can be selected from 1

The inputs can be assigned to

different signal types such as

DC voltage and DC currents, Pt-

100 and Thermocouples or any

other combination. Each signal

multiplexed, digitized and shown

The keyboard at the front permits the entry into the menu

and setting of the process

channel individually. The menu

contains the measuring range,

intervals,

resolution, setting of the set

point, setting of the real time

clock with date and time and selection of the serial data ports.

in

are

each

is

in

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

The channels can be scanned manually from the keyboard or automatically preselected in intervals. The data storing can be switched-off or activated in intervals from 1 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.

compensation.

One Set points SP1 activates an open collector transistor or a mechanical relay. The SP1 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 permits and communication with a PC.

The stored measurements in the Datalogger 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

 $\pm$  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  $\pm 2$  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 supplied from 800 A current source.

#### 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 used.

### **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. The inputs can be customized for various functions.

#### Linearizing

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

# **AD CONVERTER**

18 Bit ADC, 15 samples/sec. Accuracy:  $\pm$  0.05% from FS,  $\pm$ 1 Digit Tempco:  $\pm$  25 ppm/K

# ORBIT CONTROLS AG

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### 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 to the Datalogger.

### 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 1sec. 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.

