SETPOINT DETECTORS

programmable

DISAI Automatic Systems
T·962 448 450 www.disai.net

DSP / DSCP
DSO / DSCO

2 input versions :

- Process input : ±100mV, ±1V, ±10V, ±300V, ±20mA
- Pt100 input : Pt100 3 wires

- **Outputs** :
  2 inverting relays
  (8A/250 VAC on resistive load)

- A range of PC programmable products thanks to the software SUPERVision for windows, which can also be programmed by the micro-console

The µconsole is delivered systematically with references DSCP and DSCO.

with µconsole

Environment

- Operating temperature : -10°C to +50°C.
- Storage temperature : -20°C to +70°C.
- CE Marking

Programming

Programming with the micro-console

This µconsole clipped on the front face allows measure visualising on a 4 digit electroluminescent alphanumeric display , or occasional modifications of the programming via a 4-key keyboard. It also allows teleloading of a programming file to other products of the range.

Configuration software

Each configuration is kept as files stored on hard or floppy disk. These files can then be consulted, modified, duplicated or loaded into the converters. The files can be created with or without connecting a converter. The software also allows saving of existing configurations in the converters already in operation. All files can be edited on any type of printer.

Coding

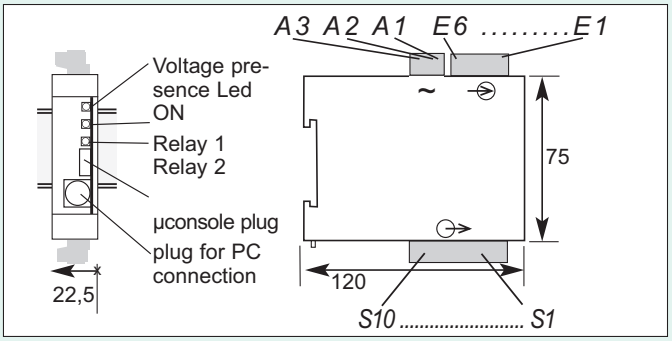
Type	DSP	- 2

Inputs :
DSP : process
DSO : Pt 100

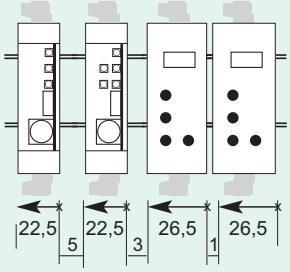
Power supply :
3 Low voltage
2 High Voltage

Instrument with µconsole
DSCP : process
DSCO : Pt 100

Dimensions



Case : (H x L x D) 75 x 22,5 x 120 mm
with µconsole : 80 x 26,5 x 130 mm
Self-extinguishing case of black UL 94VO ABS.
For mounting in electrical switchbox : latching on symmetrical DIN rail. *Consult with us for rack versions.*



To insert the µconsole : mount the instruments vertically (on horizontal DIN rail) and provide a 5mm spacement.

Technical features

INPUTS

DSO DSCO	DSP DSCP	Types of **INPUTS**	Measure range adjustable from :	Intrinsinc error	Console resolution	Input impedance
	●	mA	-22 to +22mA	< ±0,05% of measure range	10 µA	5 Ω
	●	mV♠	-110 to +110mV		10 µV	≥ 1MΩ
	●	V	-11 to +11V		1 mV	
			-330 to +330V		10mV	
●		Sensor Pt100Ω ♠* 3 wires, Standard IEC 751 (DIN 43760)	°C -200/850 °F -328/1562	<±0,1% of measure range	0,1°C / 0,1°F	Current 250µA

* Line resistance <25Ω

MR = measure range

♠ A 12 µA pulsed current allows detection of a line or sensor rupture for a cycle time programmed at 100ms

RESPONSE TIME OF THE RELAYS

(for an input signal varying from 0 to 90%)

• **DSP - DSCP**

Programmable cycle time	Max. response time (ms)	Rejection
16,6 ms	30 ms	60 Hz
20,0 ms	35 ms	50 Hz
100 ms	110 ms	50 Hz / 60Hz

* The response times are garanteed 10 minutes after setting on tension of the converter and 30 seconds after a saving of the programming, a return from measure overload, or a sensor rupture.

• **DSO - DSCO**

Cycle time : 100 ms
Response time of the relays : 410 ms max.

OUTPUTS

DSO DSCO	DSP DSCP	Code	Types of **OUTPUTS**	Features
●	●	**R**	2 inverting relays	2 setpoints per relay configurable on the whole measure range. Hysteresis programmable from 0 to 100%. Time delay programmable from 0 to 25 sec. (8A/250 VAC on resistive load)

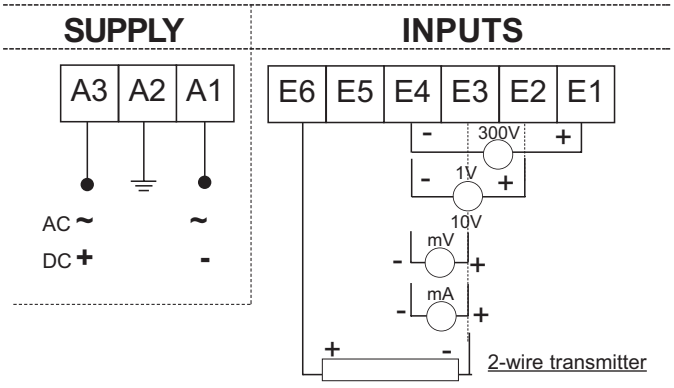
Galvanic partition : 2kV-50Hz-1min. between Supply / Input / Relay output

Code	Type of **SUPPLY**	Max. operating range	Power draw	Dielectric withstanding
3	Low Voltage	20 to 40 VAC & 20 to 64 VDC	3 W max. 5 VA max.	2KV-50Hz-1min.
2	High Voltage	90 to 270 VAC & 88 to 350 VDC		

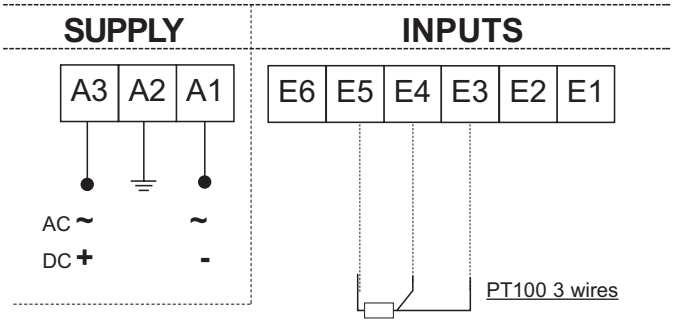
Connectings

upper connectors

DSP - DSCP



DSO - DSCO



lower connector

OUTPUTS