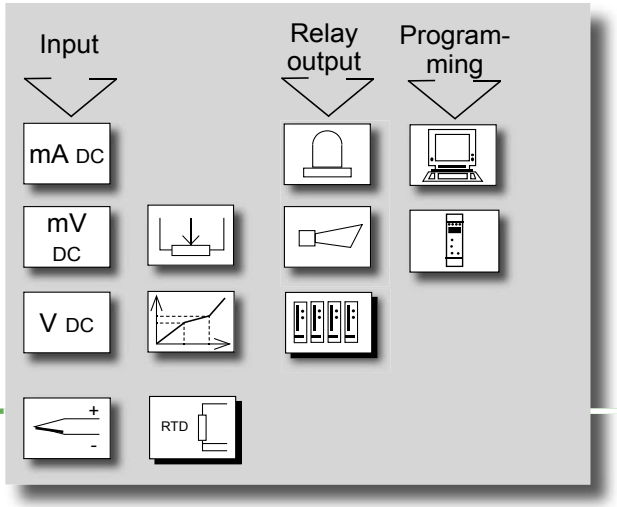
PROGRAMMABLE SETPOINT DETECTORS

DAS 10

DAS C10

Functions



- **Universal power supply**:
  20 to 270 Vac and 20 to 300 Vdc
- **Universal input**:
  ± 100 mV, ± 1V, ± 10V, ± 300V, ± 20mA, Pt100 3 wire, Ni 100, thermocouple, resistance and potentiometer
  - supply for 2-wire sensor.
- **Outputs**:
  ⇒ 2 inverting relays
  (8A/250 VAC on resistive load)
- Programming with the µconsole or by PC via the software MC VISION.
  The µconsole is systematically delivered with the DAS C 10.

Easy programming on front face with a micro-console or via the PC software MCVISION.

Programming with the micro-console

The series DAS accepts 2 types of µconsoles:
• The old generation with 4 electroluminescent alphanumerical green digits
• The new generation with graphical rear-lit LCD
The LCD allows visualising 4 pieces of information:
- the value of the measure,
- the unit of the displayed measure,
- the value of the analog output or the marking name of the product,
- the status of the relay outputs.

This µconsole with LCD also allows the display of this information either vertically or horizontally, according to the sense in which the converter is mounted.

Programming by PC: MCVISION

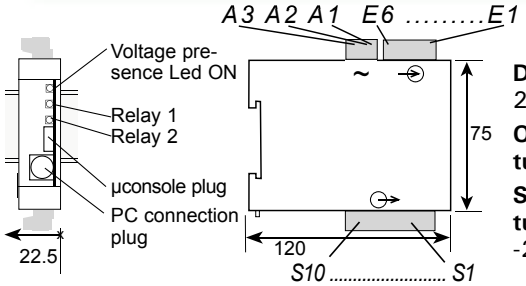
Programming software (Window environment) allowing:
the storage of configurations as files which can be consulted, modified, duplicated or loaded into the converters,
the edition and printing of files with or without having a converter connected.

♦ CE according to IEC 61000-6-4, IEC 61000-6-2 (industrial environment).

♦ Disturbance immunity according to the standard IEC 61000-6-2(IEC 61000-4-3 level 3, IEC 61000-4-4 level 4, IEC 61000-4-6 level 3)

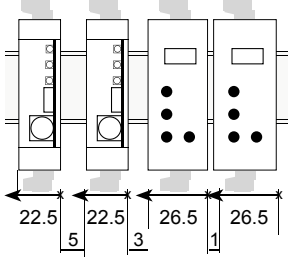
sfere®
The friendly interface

Dimensions



Dimensions: 22.5x75x120mm
Operating temperature: -10° to 50°C
Storage temperature: -20 to 70°C

Self-extinguishing case of black UL 94VO ABS.
Mounting in switchbox: latching on symmetrical DIN rail.
Rack version: consult.



Dimensions with µconsole: 26.5x80x130 mm

To allow the inserting of the µconsole: mount the instruments vertically (on horizontal DIN rail), leaving a 5 mm space between each.

Coding

Type	DAS C 10 F
	fast version
	with micro console

SETPOINTS

CA SE/07

Features

Inputs

Types of inputs	Measure range adjustable from:		Permanent overload	Intrinsic error	Console resolution	Input impedance
mA	-22 to +22mA ♣		± 100mA	< ±0.05% of the MR	10 µA	Max. drop 0.9V
mV♠	-110 to +110mV ♣		± 1V		10 µV	≥ 1MΩ
V	- 1.1 to +1.1V ♣		± 50V		1 mV	
	-11 to +11V ♣				1 mV	
	-330 to +330V ♣		± 600V		10mV	
Thermocouples ♠ Standard IEC 581	°C	°F	-	♦(2) <±0.1% of the MR	0.1°C / 0.1°F	≥ 1 MΩ
J	-160/1200	-256/2192				
K	-270/1370	-454/2498				
B	200/1820	392/3308				
R	-50/1770	-58/3218				
S	-50/1770	-58/3218				
T	-270/410	-454/770				
E	-120/1000	-184/1832				
N	0/1300	-32/2372				
L	-150/910	-238/1670				
W	1000/2300	1832/4172				
W3	0/2480	32/4496				
WRE5	0/2300	32/4172				
Sensor Pt100Ω (1)♠ 3 wire, Stand. IEC 751 (DIN 43760)	°C	°F	-	<±0.1% of the MR	0.1°C / 0.1°F	Current 250µA
	-200/850	-328/1562				
Sensor Ni 100 3 wire (1)♠	-60/260	-76/500	-			
Resistive sensors	Calibers 0-440 Ω and 0-2.2 kΩ ♣ (0-8.8 kΩ optional)		-	<±0.1% of the MR (0.5% for 0-2KΩ)	-	
Potentiometer	from 100Ω to 10 kΩ ♣		-			
Supply for 2-wire sensor	24 VDC ±15% with protection from short-circuits. 25 mA max.					
Special linearisation *programming up to 20 points*	On input: mV, V, mA. Resistive sensors and potentiometer					

(1) Line resistance <25Ω
(2) Or 30 µV typical (60µV Max.)
♦ CJC efficiency: ±0.03°C/°C ±0.5°C from -5°C to +55°C
MR Measure range

♠ A 12 µA pulsed current allows the detection of line or sensor rupture.
♣ Cut off: the display of the console remains at down scale for an input signal < to the cut off value, programmable from 0% to 100% of the input scale.

Thermic drift <150ppm /°C

Outputs

Types of **OUTPUTS**	Features
2 inverting relays	2 setpoints per relay, configurable on the whole MR. Hysteresis programmable from 0 to 100%. Time delay programmable from 0 to 25 sec. (8A/250VAC on resistive load) Typical response time (for a variation from 0 to 90% of the input signal): 100ms in standard 20ms if option F

Power supply

Operating range: 20 to 270 Vac and 20 to 300 Vdc

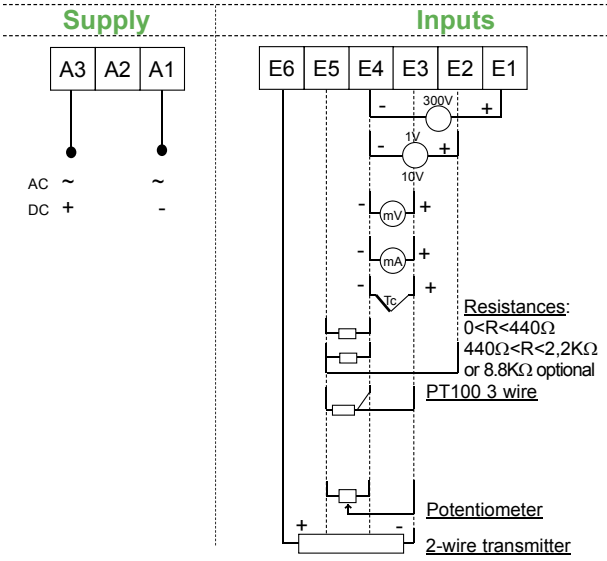
Power draw: 2.5 w max. 4 VA max.

Galvanic partition:

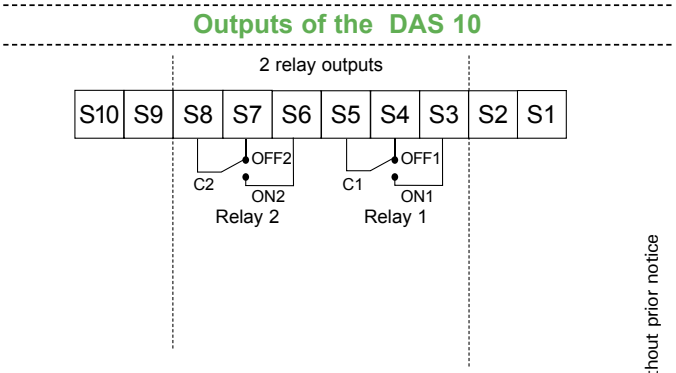
2kV-50Hz-1min. between supply, input, relay outputs

Wiring

Upper connectors



Lower connector



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