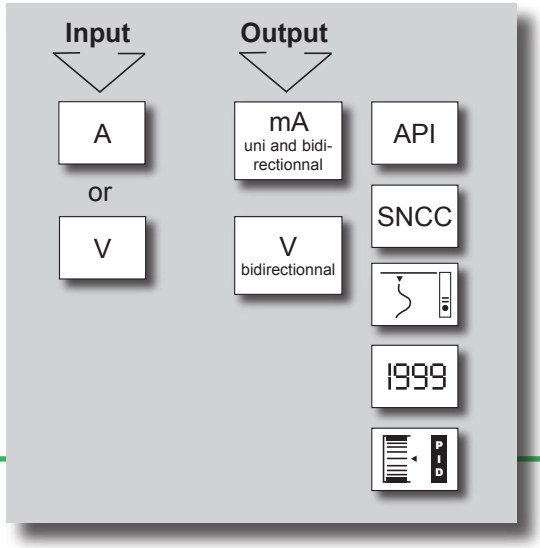
MEASURE TRANSMITTERS

AC / DC current or voltage

Series CAP plus & AVTN





♦ This range is declined into 2 versions

CAP plus **DC current or voltage input**

AVTN **AC current or voltage input**

which will accept a non-standard signal and convert it into a 0/10V voltage or 0-4/20mA current (active or passive) standardized insulated output signal.

For processing or transmission of signals ...

♦ ***Options*** **:** *(specify on order)*

-Inverted or shifted scales.
-Bidirectionnal inputs.
-5Aac input (AVTN)
-Bidirectionnal voltage output ±10V. Lr>1kΩ
-Bidirectionnal current output ±20mA. Lr<320Ω
-Passive current output 0-4/20mA U:30V max.
-Standard response time : 250ms
Option shorter response time : from 10ms to 250ms
Option longer response time : from 250ms to 30s
(specify on order)

♦ ***Accessibilities :***

Plug-off connectors for screwed connections.

Internal selection of the input and output calibers by jumpers, accessible behind the front face.

5Aac Current input, safened by a screwed connector.

IP20

CE

CONVERTER

Transfer

- ♦ Accuracy rating : ≤ 0.3 (ac) and ≤ 0.2 (dc)
- ♦ Ripple : ≤ 0.5%
- ♦ Galvanic partition : 2kV eff. 50Hz 1min. (input / output / power supply) CAP PLUS-HI (4 kV eff.-50Hz-1min.)
- ♦ Response time : ≤ 250ms [Tr] (in standard)
- ♦ Pass-band : 1.5Hz (-3 decibels) [PB:0.35/Tr]
- ♦ T° coefficient : ≤ 0.015%/°C

Environment

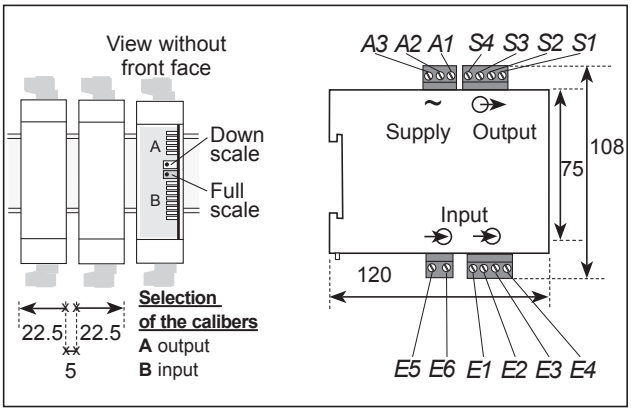
- ♦ Operating temperature : -10°C to +60°C.
- ♦ Storage temperature : -30°C to +80°C.
- ♦ Disturbance immunity according to the standard IEC 61000-6-2 (IEC 61000-4-3 : level 3, IEC 61000-4-4 : level 4, IEC 61000-4-6 : level 3)
- ♦ CE marking.

sfere®

The friendly interface

Description

♦ **Housing** : (H x L x D) 75 x 22.5 x 120 mm (H=108, with terminals)



♦ **Protection** : Housing / terminals : IP 20

♦ **Housing** : Self-extinguishing case of black UL 94VO ABS for latching on symmetrical DIN rail (mount the instruments vertically and provide a 5mm space between each). Plug-off terminals for screwed connectings (2.5mm, flexible or rigid).

♦ **Weight** : 130g (with packaging).

CA CO/68

Features

Names of the transmitters	Ranges	Max. sensitiveness	Min. sensitiveness	Impedance	Permanent overload	Features
AC current and voltage **AVTN** 	100 mVac	0/10 mV	0/100 mV	100 kΩ	25 V	Internal selection of the range by removable jumpers, and fine settings by multi-turn potentiometers. Voltage : 10mV / 100mV / 1V / 10V / 100V / 650V ac Current : 5mA / 5A ac Possibility to perform shifted scales.
	1 Vac	0/0.1 V	0/1 V	100 kΩ	75 V	
	10 Vac	0/1 V	0/10 V	1 MΩ	750 V	
	100 Vac	0/10 V	0/100 V	1 MΩ	750 V	
	650 Vac	0/100 V	0/650 V	1 MΩ	750 V	
	50 mAac	0/5 mA	0/50 mA	20 Ω	100 mA	
	5Aac	0/500 mA	0/5 A	0.02Ω	7.5 A	
AC current and voltage **CAP Plus** 	±100 mVdc	0/10 mV	0/100 mV	100 kΩ	25 V	Internal selection of the range by removable jumpers, and fine settings by multi-turn potentiometers. Voltage : ±10mV / ±100mV / ±1V / ±10V / ±100V / ±500Vdc Current : ±5mA / ±50mA ac Possibility to perform shifted scales. Integrated supply for 2-wire sensors 22V ±20% (Imax:25mA). Bidirectionnal inputs.
	±1 Vdc	0/0,1 V	0/1 V	100 kΩ	75 V	
	±10 Vdc	0/1 V	0/10 V	1 MΩ	750 V	
	±100 Vdc	0/10 V	0/100 V	1 MΩ	750 V	
	±500 Vdc	0/75 V	0/750 V	1 MΩ	750 V	
	±5 mAdc	0/0,5 mA	0/5 mA	20 Ω	100 mA	
	±50 mAdc	0/5 mA	0/50 mA	20 Ω	100 mA	

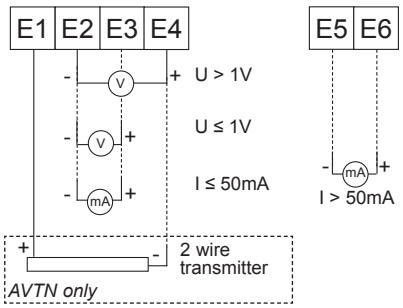
Name	Description
Current outputs mA	0/20 mA 4/20 mA Load resistance : < 750Ω ±20mA Load resistance : < 320Ω
Voltage outputs V	0 / 10 V ±10V Load resistance : > 1kΩ
Power supply	20 to 270 Vac and 20 to 300 Vdc (50/60/400Hz in AC)
Power draw	On load : < 4,5VA (2,5W) Empty : < 2,5VA (1W)

Coding	
DC current / voltage input	CAP plus
AC current / voltage input	AVTN

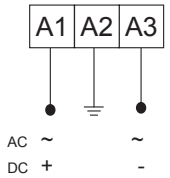
For a DC voltage transmitter with a 230 V supply, request reference : CAP plus

Wiring

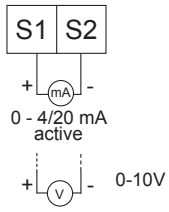
Process input



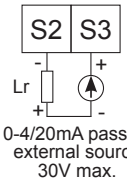
Power supply



Active current and voltage output



Passive current output



This instrument is dedicated to industrial applications. It has to be installed in an electrical switchbox, or equivalent.

SFERE - CF CO/68 - C 02/08 - Any data in this documentation may be modified without prior notice.

Your representative

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