

## Converters

## Narrow profile transducers

Electrical parameter transducer in a process signal



### Description

- Convert voltage, current or frequency in a single-phase system
- Very competitive quality / price ratio
- Ideal for small installations
- Very reliable and robust devices
- Valid for work under demanding conditions

### Application

- Systems for the conversion of the electrical parameters of single-phase networks in industrial environments where there are demanding conditions and there is a reduced space.
- Converts voltage, current or frequency into a single-phase system in analogue output or process signal.
- Conversion of electrical parameter signal to process signal for PLCs.

### Features

	CVE-A	CCE	CFE
<b>Power supply circuit</b>	230 Vac (-15 ... +20 %) (*1)		
Frequency	40 ... 90 Hz		
Consumption	2.5 V·A		
<b>Measurement circuit</b>			
Consumption	< 0.2 V·A		
Frequency	45 ... 65 Hz		
Nominal voltage (U <sub>n</sub> )	0..0.690 Vac	-	10..0.600 Vac
Nominal current (I <sub>n</sub> )	-	5 A ac	-
Measurement range	5-120 % (*2)		
Overload (permanent)	-	300 % I <sub>n</sub>	-
Overvoltage	1000 V	-	1000 V
<b>Analogue output circuit</b>			
Voltage load impedance	> 500		
Current load impedance	< 500		
Response time	< 300 ms		
Rippling, in TRMS	< 0,5 %		
<b>Insulation</b>			
Test voltage	3 kV		
Impulse test	4 kV		
<b>Ambient conditions</b>			
Storage temperature	-40 ... +70 °C		
Operating temperature	-10 ... +55 °C		
Altitude	2000 m		
<b>Build features</b>			
Box material	ABS V0		
Degree of protection	Box: IP 20 / Front panel: IP 54		
Weight (g)	190	250	190
<b>Standards</b>	IEC 529, IEC 688, IEC 801, EN 50081-1, EN 50082-1		

(\*1) For other types of power supply, see the coding table

(\*2) CVE-A-AP i CFE-AP: Measurement range 70-110 %

# Narrow profile transducers

Converter of electrical parameters into process signals



## References

Standard auxiliary power supply: 230 Vac, 45...65 Hz (\*)

For non-standard purchase orders, please state the following: 1.Code, 2.Input range, 3.Output range, 4.Auxiliary power supply, 5. In **CFE-AP**, state the network voltage. (See coding table)

Application	Measurement	Accuracy	Input (*)	Output (*)	Type	Code
Voltmeter	AC	0.5 % FE	300 V	4...20mA	<b>CVE-A</b>	<b>M25011</b>
Voltmeter (*1)			230 V	0...20mA	<b>CVE-A-AP</b>	<b>M25021</b>
Ammeter			5 A	4...20mA	<b>CCE-A</b>	<b>M25111</b>
Ammeter (*1)			0...20mA	<b>CCE-A-AP</b>	<b>M25121</b>	
Frequency-meter			45..0.55 Hz	4...20mA	<b>CFE</b>	<b>M25511</b>
Frequency-meter (Self-powered)				0...20mA	<b>CFE-AP</b>	<b>M25521</b>

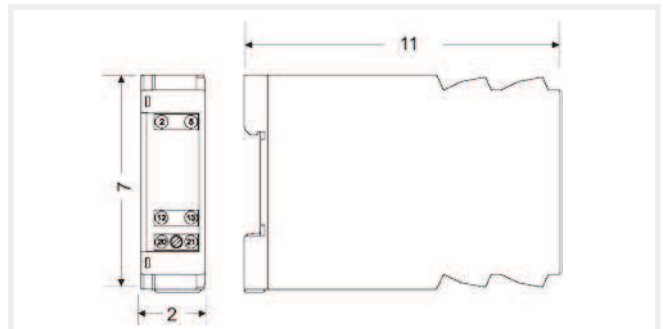
(\*1) Self-powered: does not need an auxiliary power supply.

(\*) Other inputs, outputs and auxiliary power supplies are offered as an option (See coding table).

## Coding table

		M	2	X	X	X	X	0	0	X	X	X	X	X
1	Code	Internal Code												
2 - INPUTS	CVE-A Voltage	Standard (300 V)	0											
		110 V	1											
		400 V	2											
		500 V	3											
		690 V	4											
	CVE-A-AP Voltage	Standard (230 V)	0											
		110 V	1											
		400 V	2											
	Current	Standard (5 A)	0											
		1 A	1											
		10 A	4											
	Frequency	Standard (45...55 Hz)	0											
		55...65 Hz	1											
		47...53 Hz	2											
45...65 Hz		3												
0...100 Hz		4												
380...0.420 Hz		5												
360...0.440 Hz		6												
340...0.460 Hz	7													
3 - OUTPUTS	CVE-A, CCE-A, CFE	Standard (4...20 mA)	0											
		0...20 mA	1											
		0...0.10 V	2											
	CVE-A-AP, CCE-A-AP, CFE-AP	Standard (0...20 mA)	0											
		0...0.10 V	1											
4	Auxiliary power supply	Standard (220...240 V)	0											
		380...40 Vac 40/60 Hz	3											
		18...36 Vdc	7											
5	Network voltage (CFE-AP)	Standard (230 V)	0 0											
		110 V	0 1											
		400 V	0 2											

## Dimensions



## Connections

