

## CCOS-TE Out1,3

CCOS-TE Sa1.1,3

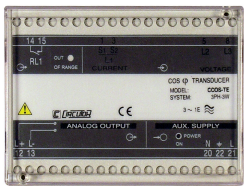
Code: M25351. DESCATALOGADO

- > Transducer FP
- > Output type: 1
- > 3
- > Analog output: 0...20mA
- > System: Balanced three-phase (3 wires)

### Description

The **CCOS** transducers measure  $\cos\phi$  single-phase system.

The analog output is directly proportional to the measurement signal, 0...20 mA or 4...20 mA. The analog output can be bidirectional.



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Cosinus φ transducer

Code: M25351.

## Specifications

### AC power supply, insulation

|                   |                     |
|-------------------|---------------------|
| Pulse test (kV)   | 4 kV (1,2/50µs)     |
| Test voltage (kV) | 3 kV RMS 50 Hz 1min |

### AC power supply

|                 |                                  |
|-----------------|----------------------------------|
| Consumption     | 2,5 VA                           |
| Frequency       | 40...90 Hz                       |
| Nominal voltage | 24/115/230/400 Vca (-15...+20 %) |

### Mechanical characteristics

|                                  |                    |
|----------------------------------|--------------------|
| Size (mm) width x height x depth | 95 x 72 x 110 (mm) |
| Weight (kg)                      | 0,31               |

### Environmental characteristics

|                       |                                |
|-----------------------|--------------------------------|
| Protection class      | IP 20 (Terminals) IP 40 (case) |
| Storage temperature   | -40....+70 °C                  |
| Operating temperature | -10...+55 °C                   |

### Current measurement circuit

|                           |                    |
|---------------------------|--------------------|
| Nominal current (In)      | 5A                 |
| Phase current measurement | 0...150 % In       |
| Allowable overload        | 300 % In permanent |

### Voltage measurement circuit

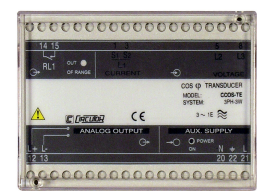
|                                       |              |
|---------------------------------------|--------------|
| Consumption                           | 0,2 VA       |
| Frequency measuring range             | 45...65 Hz   |
| Voltage measuring range               | 0...150 % Vn |
| Nominal voltage                       | 500 Vca      |
| Maximum permanent measurement voltage | 1000 V       |

### Standards

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| Electrical safety, Maximum height (m) | 2000                                                        |
| Standards                             | IEC 529, IEC 688, IEC 801, EN 50081-2, EN 50082-2, IEC 1010 |

### Analogue inputs

|                              |                        |
|------------------------------|------------------------|
| Load impedance in current    | < 500 Ω                |
| Ripple (effective RMS value) | < 0,5 %                |
| Response time                | < 500 ms (0...99 % Vn) |



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## Analogue outputs

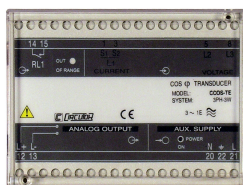
|                             |                           |
|-----------------------------|---------------------------|
| Current mode, nominal range | 0...20 mAac / 4...20 mAac |
|-----------------------------|---------------------------|

## Measurement accuracy

|                           |          |
|---------------------------|----------|
| Phase current measurement | 0,5 % FS |
|---------------------------|----------|

CCOS  
Cosφ transducer

| CODE                                                                 | TYPE           | Output type | Analog output | System                         |
|----------------------------------------------------------------------|----------------|-------------|---------------|--------------------------------|
| Cos φ. Auxiliary supply 230 V, 40...90 Hz, Accuracy: ± 0,5 % reading |                |             |               |                                |
| M25341.                                                              | CCOS-M Out1,3  | 1, 3        | 0...20mA      | Single-phase                   |
| M25342.                                                              | CCOS-M Out 2   | 2           | 4...20mA      | Single-phase                   |
| M25351.                                                              | CCOS-TE Out1,3 | 1, 3        | 0...20mA      | Balanced three-phase (3 wires) |
| M25352.                                                              | CCOS-TE Out2   | 2           | 4...20mA      | Balanced three-phase (3 wires) |
| M25361.                                                              | CCOS-TEN Sa1,3 | 1, 3        | 0...20mA      | Balanced three-phase (4 wires) |
| M25362.                                                              | CCOS-TEN Out2  | 2           | 4...20mA      | Balanced three-phase (4 wires) |



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## Dimensions

