

## Current and Voltage Measuring Transducer CDX-V/I

The transducer, designed for indoor installation, is used in DC Traction to measure Line Current and Voltage granting a suitable level of insulation in 900V, 1.800V and 3.600V Voltage systems.

It is composed by:



- n.1 Isolated Transmitter Unit CDX-V/I- Tx connected to the main line directly for Voltage and through shunt for current measurement



- n.1 Current Receiver Unit CDX-I-Rx



- n.1 Voltage Receiver Unit CDX-V-Rx

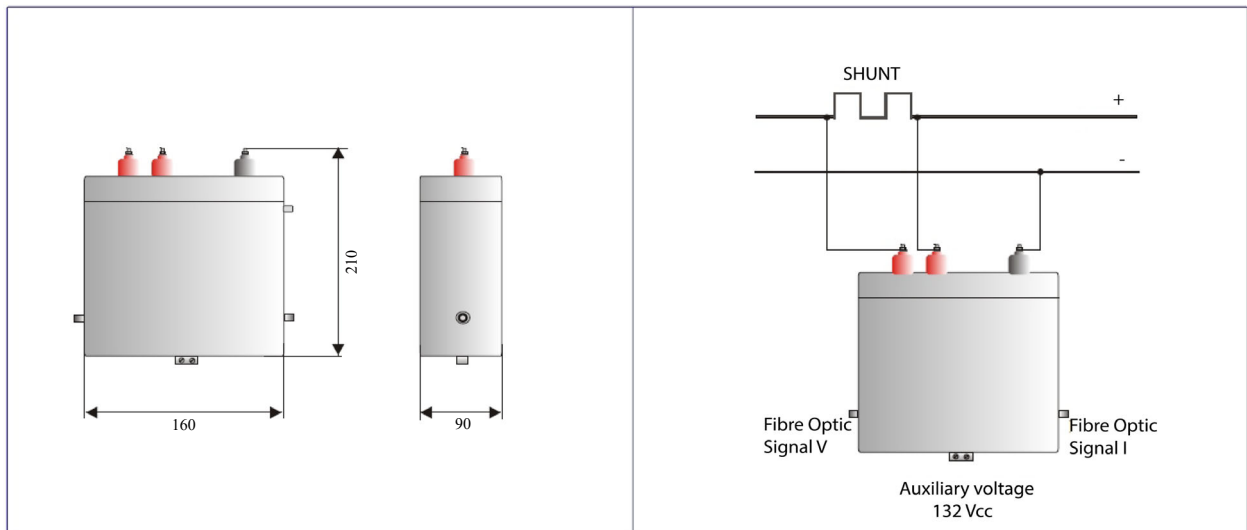
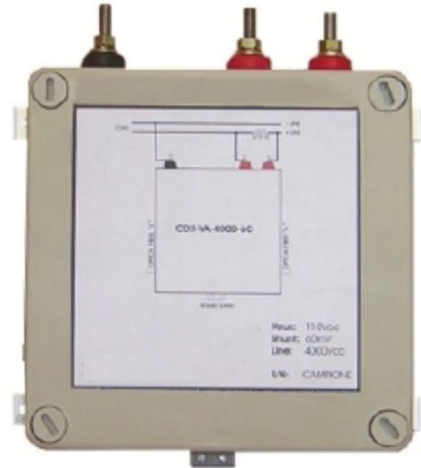
- n.2 Fibre Optic Connection cables

High accuracy and measurements linearity in a very wide range allows to use the transducer to feed Protective relays and Measuring devices.



## CDX-V/I-Tx- TRANSMITTER UNIT

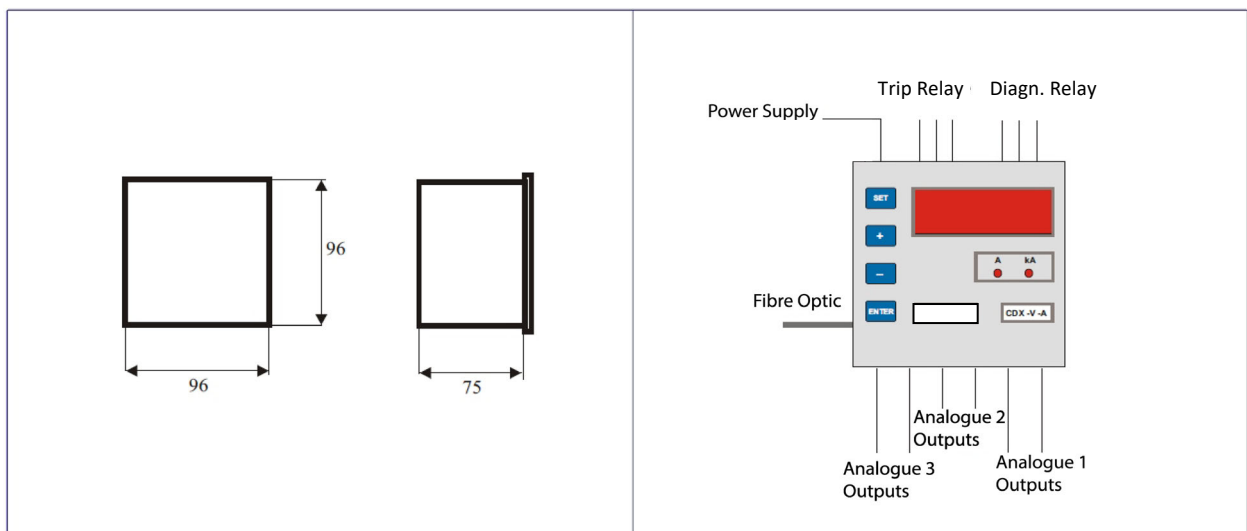
- Current and Voltage Transmitter unit:
- Measuring Voltage Range: 60-6000Vdc
- Measuring Current Range: 0-60/80mV
- Auxiliary Power Supply Voltage: 110Vdc  $\pm$  20%
- Response time: <math><500\mu\text{sec}</math>
- Accuracy: 0.2%
- Inputs:
  - o Voltage Measurements: Direct Connection to the line
  - o Current Measurement: Through Shunt
- Outputs:
  - o n. 2 Fibre Optic output cables
- Dimensions: 204x160x90 mm
- Weight : 3kg



Connected to the transmitter Unit by means of a Fibre Optic cable is suitable for Panel Mounting installation.

### Main Characteristics:

- 4 digits LCD display for Measurements and setting visualisation
- 4 buttons Keyboard for local programming
- Visualisation Range: -9999 ÷ 9999A
- Auxiliary Power Supply Voltage: 110Vdc ± 20%
- Input: Fibre Optic Cable from Transmitter unit
- Outputs:
  - o n.3 (4-20)mA or (0-20)mA Analogue Outputs
  - o n.1 Programmable Alarm Relay C/O contacts
  - o n.1 Diagnostic Relay C/O contacts
- Insulation level: 2kV per 1' @ 50hz between Supply voltage – Analogue Input and Output Relays
- Dimensions: 96 x 96 x 75 mm
- Weight: 0,5kg



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