

CVS-P – Combined Current and Voltage Low-Power Transformers**For Medium Voltage Distribution Systems****Request for Quote**

Altea proposes a family of CVS-P – combined Voltage and Current passive Sensors - with Low-Power differential Outputs. The voltage sensing is based on a capacitive probe, the current sensing is a rogowski coil; being the sensors passive, the technical features of the instrument transformers depend on the burdens to which they are connected.

This type of passive sensors are suitable to be used with new-generation meters/relay only, featuring:

- input interfaces compatible with instrument transformers (very low voltage signals),
- real transformation ratio and real phase offset can be adjusted via software to the rated values
- the signal of the rogowski coil is integrated via software.

In case of retrofitting applications where all above features are not available in the meter/relay, Altea recommends to use the active version of sensors together with special accessories:

The Altea Conv-CV is a secondary converter that supplies power to a set of three active sensors, acquires their voltage and current signals and returns as outputs the ones of traditional measurement transformers (1A or 5A; 100/ $\sqrt{3}$ V @ 50 Hz or 120 V @ 60 Hz). The converter is also available in single C or single V versions.

Please select product characteristics

1. Quantity of Sensors
2. Service conditions: Indoor – Air insulated switchgear Indoor – SF6 insulated switchgear Outdoor
3. Ambient-Air Temperature Category: [-5; +40] °C [-25; +60] °C [-40; +60] °C
4. Highest Voltage for Equipment (kV): 17,5 24 27 36 40,5 _____
5. Rated Frequency: 50 Hz 60 Hz
6. Rated Primary Voltage 15/ $\sqrt{3}$ kV 20/ $\sqrt{3}$ kV 30/ $\sqrt{3}$ kV 35/ $\sqrt{3}$ kV _____
7. Rated Primary Current: 200 A 300 A 400 A 500 A 630 A _____
8. Accuracy class of Current Sensor
for Protection: 5PX X = _____
for Measurement: 1 0,5 (Std) 0,2 S



CUSTOMER REQUEST EVALUATION

Quality Assurance	F-820-001	Rev. A	04/09/2017
--------------------------	------------------	---------------	-------------------

9. Accuracy class of Voltage Sensor

for Protection: 3P

for Measurement: 1 0,5 (Std) 0,2 S

10. Frequency bandwidth: rated Frequency Power Quality Metering

11. Rated Ratio of Current Sensor 300 A / 0,08 V (Std)

rated burden 10 kOhm:

300 A / 1 A – by means of Three-Channels Altea Conv-C (see point 16 for quantities)

_____ please contact Altea T.O. for different output values

12. Rated Ratio of Voltage Sensor – 10,000 V / 1 V (Std)

rated burden 1 MOhm:

10,000 V / $100/\sqrt{3}$ V – by means of Three-Channels Altea Conv-V (see point 16 for quantities)

_____ please contact Altea T.O. for different output values

13. Additional Test point Output (available only on Indoor CVS): Yes No

14. Output cable length: 5 m (Std) _____

15. Altea Accessories:

15a Auxiliary Supply Voltage: 24 / 48 V DC or AC (Std) 230 VAC 110 VAC _____

15b Add Three-Channels Altea Conv-CV to the order: Quantity _____

Date,

Company name:

VAT No:

Address:

Contact:
