# **RōCoil TCA-5**<sup>TM</sup>

The DENT RōCoil TCA-5 delivers the flexibility and ease-of-installation of the RōCoil current sensors to applications using power meters with 5A current transformer inputs. Used with standard RōCoil flex CTs, the TCA-5 is a three-channel integrating transconductance amplifier that translates the electrical output signal from the RōCoil current sensor to a 5 amp AC current, emulating a traditional current sensing transformer.

The RōCoil TCA-5 is a DIN rail or panel mounted device requiring an external 48 VDC power supply. The RōCoil TCA-5 has four selectable current ranges: 500, 1K, 2.5K, and 5K amps and selectable frequency for both 50 and 60 Hz systems.

#### **KEY SPECIFICATIONS**

Input Measurement Voltage	0—655 mV (RMS)
Reference Conductor Current Range	0.5—5000 Amps (80 dB Signal Range)
Output Current	0—5.00 Amps (RMS)
RoCoil Sensing Ranges	500, 1K, 2.5K, 5K Amp (user selectable)
Maximum Burden	1.25 VA per channel
Maximum Output Impedance	50 m-ohms
Measurement Channels	3 (3-phase or single-phase)*
Frequency	50/60 Hz (user selectable)
Accuracy	+/- 1%**
Channel Cross Talk	< 60 dB
Maximum Operating Temperature	60 °C (140 °F)

## **POWER REQUIREMENTS**

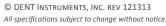
TCA Supply Voltage	48 VDC +/- 10%, 30 Watts
TCA Supply Current	0.6 Amps DC @ 48 VDC
Accessories	
	Low Voltage: 120/240 VAC
AC/DC Power Supply, 48 VDC	High Voltage: 200/500 VAC

#### **DIMENSIONS/MOUNTING**

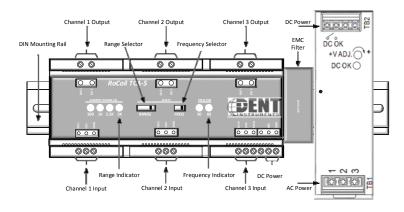
Width—Base Unit	15.7 cm (6.2")
Width—As Assembly	25.0 cm (9.8")
Height—Base Unit	9.0 cm (3.5")
Height—As Assembly	12.6 cm (5.0")
Mounting	TS35/7 DIN Rail or Panel
Input Wire Connection	18—28 AWG
Output Wire Connection	12—18 AWG (length dependent)

\*Only 4.5 Amps are available on single-phase loads if all three channels are on the same phase.

\*\*All accuracies specified at 20°C (±2°C) with RōCoil™ centered on conductor with unity power factor.







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Min Current @ 1% Error	Max Current
5 A	500 A
10 A	1000 A
25 A	2500 A
50 A	5000 A
	@ 1% Error 5 A 10 A 25 A

### **RōCoil TCA-5<sup>™</sup> PART NUMBERS**

Part Number	Description
TCA-5-AO	RōCoil TCA-5 <sup>™.</sup> For use with DENT RōCoil CTs. Does not include power supply or RōCoil CTs.
TCA-5-HV-KIT	RōCoil TCA-5. For use with DENT RōCoil CTs. Includes 48 VDC High Voltage (200/500 VAC) power supply for use on 3-phase services, wiring harness, and TS35/7 DIN rail. Does not include RōCoil CTs.
TCA-5-LV-KIT	RōCoil TCA-5. For use with DENT RōCoil CTs. Includes 48 VDC Low Voltage (120/240 VAC) power supply for use on 1-phase services, wiring harness, and TS35/7 DIN rail. Does not include RōCoil CTs.
TCA-HV-POWER	48 VDC High Voltage power supply for use on 3- phase services. Use with RoCoil TCA-5.
TCA-LV-POWER	48 VDC Low Voltage power supply for use on single-phase services. Use with RōCoil TCA-5.

## CONTACT US





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