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CT-IPM

Current Transducer - Interface & Power Module

- Interfaces with current transducers and provides power necessary
- Flexible rack, panel and DIN mount options
- Integration of current transducers into the Alpha® peripheral product family
- CAN power provided for injection into existing CAN lines

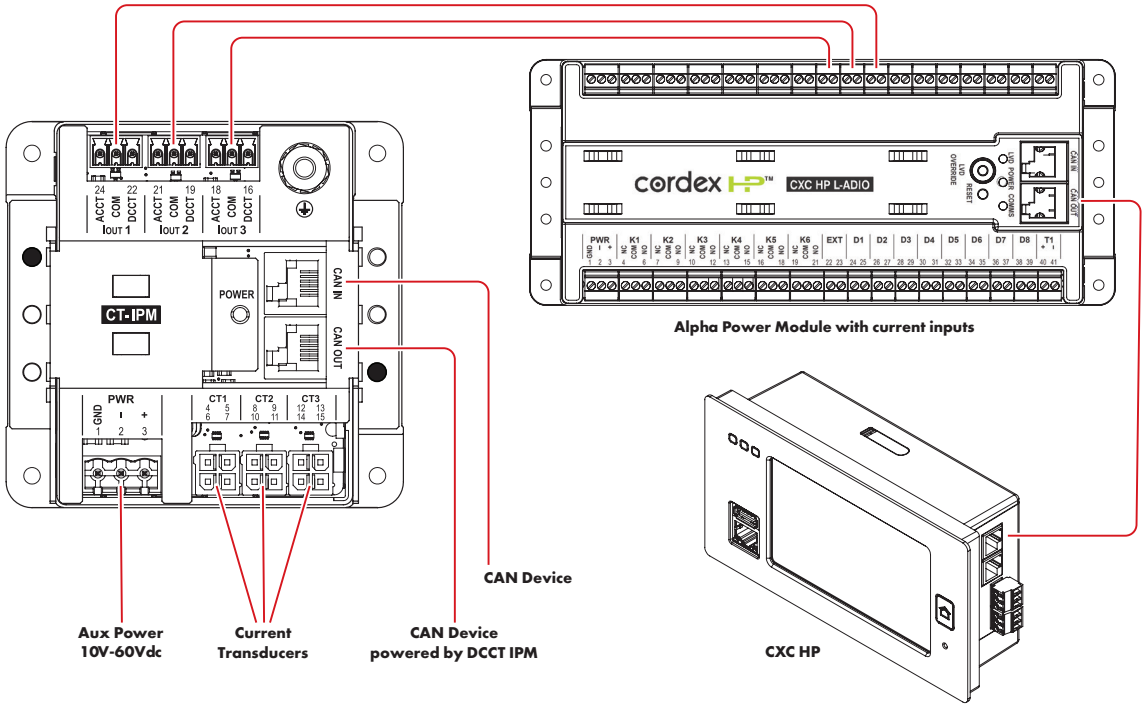
The CT-IPM interfaces with current transducers and translates the signals of the transducers to the current inputs available on the L-ADIO, 6I-ADIAO and HV-ADIO.

The current transducers paired with the CT-IPM behaves similar to a current shunt and is then connected to the monitoring devices such as the L-ADIO, 6I-ADIAO and HV-ADIO. The CT-TPM makes it possible to measure the RMS value of an AC feed (50Hz/60Hz) or the direct value of a DC feed. It further provides CAN power on its CAN OUT connector. This feature is intended for power injection in to any existing CAN lines. The CT-IPM does not by itself communicate via CAN.

The ACCT outputs provide an RMS representation of the current when measuring AC while the DCCT outputs preserve the polarity information when measuring DC current. Both AC and DC currents can be measured using the same transducer.

CT-IPM Current Transducer - Interface & Power Module

Electrical	
Input Voltage:	10 to 60VDC, 11W
Input Current:	1.2A max
Features	
LED:	Power (Blue)
Mounting:	• 3U 19/23" Rack Mounting • DIN Rail Mounting - option • Panel Mounting - option
CT Interface:	±10VDC Signal DC or 50/60Hz AC ±15VDC Bias for sensor
Analog Output:	DCCT output +-200mVDC ACCT output 0-200mVDC
CAN Power:	5Vdc 500mA max, on CAN Out connector only Signal pass through
Mechanical	
Mounting:	DIN/Panel mounting (0370196)
Dimensions:	**mm:** 131.3H x 83.9W x 28.9D **inches:** 5.1H x 3.3W x 1.2D
Weight:	0.16kg (0.35lbs)
Environmental	
Temperature:	**Extended:** -40 to 70°C (-40 to 185°F) **Humidity:** 0 to 95% RH non-condensing
Elevation:	-500 to +2000m (-1640 to 6562ft)
Agency Compliance	
Safety:	CSA C22.2 No 60950-1-03
EMC:	Emissions: CFR47 (FCC) Part 15 Class B ICES-03 Class B EN55032 (CISPR 22) Class B
Immunity:	ETSI EN 300 386 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-6



Part numbers and Ordering Options

Description		Part Number
Base Module	Standalone CT-IPM	0180028-001
Current Transducers	Square Bus 200A (4V@ 200A)	173-002-10
	Rectangular Bus 500A (4V@ 500A)	2420012
	Circular Cable 200A (4V@ 200A)	173-004-10
	Circular Cable 1000A (4V@ 1000A)	173-003-10
Standard Cables	2.5m (8')	877-273-20-000
	15m (50')	877-623-20-000
Mechanical	DIN rail mount kit	0370196-001

Quickstart

Physical setup:

1. Place the current transducer in your system. The transducers can be placed in AC or DC lines. Make sure to choose a transducer with a suitable current range for your feed.

2. Connect the transducer to the CT-IPM using one of the standard cables. One CT-IPM supports up to three current transducers. If more are needed multiple CT-IPMs can be used.

3. Power the CT-IPM with a voltage of 10-60Vdc. Make sure GND is connected on both chassis and the connector plug.

CAUTION: To reduce risk of fire only use #26AWG (0.12mm2) or larger. When wiring to bus voltages ensure the current is limited to under 50A and appropriate to the maximal current carrying capacity of the wiring used.

4. Connect the output of the CT-IPM: To preserve the polarity information when measuring DC, use the DCCT output channels (wired between COM and DCCT). When measuring AC currents (50Hz/60Hz) connect to the ACCT output for an RMS representation of the AC current (wired between COM and ACCT). Note: The CT-IPM atenuates the signals received by the current transducer 50x in order to make them compatible with the current inputs of the CXC family devices. The correct ramp coefficient is automatically calculated when the wizard is used on the CXC-HP.

To create the CT-IPM in the system:

NOTE: Update the CXC-HP controller to v6.10 or higher for CT-IPM support.

1. Log into the controller (CXC-HP) on the web interface or over touch interface.

2. Go to System > User System > Inventory > Other Transducers.

3. Click on Create Transducer to launch the wizard. Follow the wizard to configure the transducer. Note: Be sure to select Current Transducer with an IPM (CT-IPM) under Choose Transducer Type.

4. Complete the wizard to finish configuring the transducer.

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