PowerTRAC Monitoring Module

The Genius PowerTRAC block is used in many types of power monitoring and industrial applications. The PowerTRAC block monitors current and voltage inputs and stores digitized waveform values for each input. From these values, the block calculates RMS voltage, current, active power, reactive power, KWH, and power factor. The block automatically sends this calculated data to a host PLC or computer approximately twice per second. The same data can be displayed on a Genius Hand-held Monitor, either locally or from any connection point on the bus.

A PowerTRAC block can be used with a wye- or delta-configured three-phase power system or with a single-phase power system. It accepts voltage inputs from one to three potential transformers, and current inputs from up to three line current transformers, plus a neutral current transformer.

IC660BPM100

Product Name	Genius I/O PowerTrac Monitoring Block, Accurately measures RMS voltage, current, power, VARs, power factor, watt-hours, and line frequency, even with distorted waveforms.115 VAC/125 VDC Powered
Lifecycle Status	Mature
Network Support	Genius Bus
Input Range	0 to 120 VAC RMS at 47 to 63 Hz
Number of Points	(1) Three Phase
Calculated Data	Voltage phase A to B Voltage phase B to C Voltage phase C to A Voltage phase A to N (for line-to-neutral potential transformers only) Voltage phase B to N (for line-to-neutral potential transformers only) Voltage phase C to N (for line-to-neutral potential transformers only) Current phase A Current phase B Current phase C Auxiliary CT current Active power phase A Active power phase B Active power phase C Reactive power phase A Reactive power phase B Reactive power phase C Total power factor Total watt-hours/KWH/MWH Fundamental VARS phase A Fundamental VARS phase B Fundamental VARs phase C Fundamental Power Factor Harmonic VARS as % of Volt-Amps phase A Harmonic VARs as % of Volt-Amps phase B Harmonic VARs as % of Volt-Amps phase C Total Harmonic VARs as % of Volt-Amps Line Frequency Temperature Alarm Extended Watt-hours (high) Extended Watt-hours (low)
Accuracy	0.25% reading +0.25% full scale
Operating Voltage	115 VAC/230 VAC (90–265 VAC), 47–63Hz or 125 VDC (100–150 VDC), 35 VA max.
Dimensions (W x H x D)	11.00" (27.94cm) x 5.21" (13.23cm) x 8.06" (20.47)

Accessories and Cables

IC660BSM021	Genius Bus Switching Module, 24/48 VDC	Mature
IC660BSM120	Genius Bus Switching Module, 115 VAC/125 VDC	Mature
IC660BLC001	Genius bus Cable w/Connectors Alpha 9823 15 In (Qty 3)	Active
IC660BLC003	Genius bus Cable w/Connectors Alpha 9823 3 Ft	Active
IC660BLM506	Bus Terminator 150 Ohm (Qty 4)	Active
IC660BLM508	Bus Terminator 75 Ohm (Qty 4)	Active
IC660BLM507	Genius Block Puller	Active

Hand Held Monitor

IC660HHM501	Hand-Held Monitor can be used to configure and trouble shoot Genius blocks. Kit includes Cable and Battery Charger	Mature
IC660BCM501	Hand-Held Monitor Battery Charger	Active
IC660BPM500	Hand-Held Monitor Battery Pack	Mature