

I-Sense® Voltage Monitor

Product Selection

Bulletin 1608S i-Sense Voltage Monitor

Description	Cat. No.
3-Channel i-Sense	1608S-3V480K
6-Channel i-Sense	1608S-6V480K

Specifications and Approximate Dimensions

Electrical	
Nominal Voltage	User-selectable, 100V-480Vrms, 1-Phase or 3-Phase Immune to voltage fluctuation up to ±10% of nominal and transient over voltages typically present on mains supply (impulse withstand Category II of IEC 60364-4-443)
Frequency	45...65 Hz, auto-sensing
Measurement inputs	1 to 3 channels, Cat. No.: 1068S-3V480K (3-channel) Up to 6 channels, Cat. No.: 1068S-6V480K (6-channel)
RMS voltage measurement accuracy	0.2% typical, ± 2% maximum (of full-scale) True rms
Sample rate	5760 sample/second
Waveform capture rate	32 samples/cycle
Time Stamp	±0.1 seconds typical accuracy Real-time clock synchronized to UTC (NIST standard) daily, via i-Grid and SNTP protocol
Data Storage	Non-volatile event storage > 300 events Memory cleared after automatic up load to i-Grid.
Voltage Deviation Event detection trigger.	1/2-cycle rms voltage ≤ 87% or ≥115% of set nominal Adaptive waveform deviation detection of transient events.
Voltage Deviation Event Storage	8 cycles waveform data (-1...+3 cycles at event start and -3...+1 cycles at the event end) Continuous rms voltage trend, up to 2 minutes.
Periodic (PRMS) Data Logging	Minimum, Maximum and Average rms voltage recorded for each 10-minute period. Min./Max. are lowest/highest sliding 1/2 -cycle rms period
Power supply and battery backup	Powered from Channel 1 (L1-L2 or L1-N), < 25VA load 9VDC external power supply (not provided - for configuration only) Rechargeable batteries enable measurement & communications during power interruptions for up to 2 minutes
Mechanical & Environmental	
Enclosure	NEMA 1 (IP20). Indoor use only. Only non-conducting pollution (degree II) Dimensions: 11.4" H x 9.7" W x 3.0" D (291 mm H x 247 mm W x 75 mm D)
Weight	8.5 lb (3.6 kg)
Operating Temperature	0...+ 40 °C (+32...+104 °F)
Storage Temperature	-40...+ 75 °C (-40...167 °F)
Relative Humidity	0...95%, non-condensing
Altitude 2000 m	(6,562 ft) at +40 °C
Communications	
Internet Communications	Over port 80 via HTTP protocol. Outgoing only.
Ethernet	IEEE 802.3 10 Base-T (10 Mb/s), 8P8C (RJ45) modular connector
Modem (optional)	PSTN (analog telephone) RJ11 modular connector, Most global phone systems supported
Indicators	Red and green front-panel LEDs
i-Sense Management Console	On-board Web server for configuration and status, password protected.