

ENCORE SERIES / 61000 DATANODE

SPECIFICATIONS

VOLTAGE MODULES

- Channels: (4) differential inputs, AC/DC
- Sampling: 512 samples/cycle, 16bit A/D, synchronous sampling. Range: 1-600 Vrms, +/- 1000Vpk, 10-1000V RMS via pod
- Frequency: 50Hz, 60Hz
- Full Scale Accuracy: 0-600V 0.1% reading +/- 0.05% full scale, 7KHz bandwidth for low/frequency transients
100-300V AC 0.1% reading for IEC61000-4-30:2008 Class A
- Input impedance: 10MΩ to ground
- Choice of connections: Screw terminals, safety connectors, D connector for use with (optional) remote pod with screw terminals. Choose one.
- Optional: Anti Aliasing filtering hardware.

CURRENT MODULES

- Channels: (4) differential inputs, AC/DC
- Sampling 512 samples/cycle, 16 bit A/D. Range: Full scale current = 1.5Vrms, crest factor of 3
- Accuracy: 0.1% reading +/- 0.05% full scale, 3KHz bandwidth for low/medium freq. transients. Does not include CT.
- Choice of connections: Screw Terminals, TR connectors, D connector for use with (optional) remote 5A or 1A pod with screw terminals or 5A/20X pod with feed through tubes. Choose one.
- Optional: Anti Aliasing filters- Accuracy: +/-10% reading, +/- 0.5% full scale

DIGITAL INPUT MODULE

- Channels: (8)
- Sampling: 1KHz. Range: 0-135V AC/DC
- Triggers: Edge, level
- Connections: Screw terminals

MONITORING/COMPLIANCE

- IEC61000-4-30:2008 Class A, IEC61000-4-7, IEC61000-4-15
- EN50160, NVE, IEEE1159, IEEE1453, IEEE519, IEEE1459 ,CREG



Sample rear panel 61STD shown above.



POWER QUALITY TRIGGERS

- V & I RMS (Sag/Dip, swell, interruption) 1 cycle resolution , 1/2 cycle steps as per IEC61000-4-30
 - Reference: L-L, L-N Concurrently
 - Pre/Post cycles : 30 pre (max), 10,000 post (max)
- Transients:
 - Waveshape Triggers: Cycle by Cycle, RMS deviation
 - Peak transient
- Journals (stored parameters): High, low, very-high, very-low, Utility Frequency Trigger

MEASURED PARAMETERS (NOT LIMITED TO THE FOLLOWING)

- Power
 - V, I, W, VA, VAR, TPF, DPF, Demand, Energy, etc.
- Harmonics/Interharmonics/Distortion (per IEC61000-4-7)
 - Harmonics individual harmonic spectrum to the 63rd for V & I
 - Vthd, Ithd, Vtid, Itid, K factor, TDF, TIF, more
 - 5 user specified frequencies
 - Unbalance: Symmetrical components, worst from ave.
- Flicker (per IEC61000-4-15, IEEE1453): Pst, Plt, sliding Plt

COMMUNICATIONS:

- 10/100BaseT Ethernet, RS232, RS485,
- Optional GSM/GPRS, Analog modem, 3G/4G Wireless (IEC 61850, OPC are optional)
- Protocols: XML, Modbus TCP/RTU, HTTP
- Time synchronization: NTP, optional GPS

USER INTERFACE

- Remote: Web browser via Encore Series Software: Primary UI for setup, trends, reports, real time. Available languages; English, Spanish, French, German, Italian, Chinese. Instrument web browser for metering. English only.
- Optional Local Display: ¼ VGA touch screen remote display, rack mounted display. Languages: 12

GENERAL SPECIFICATIONS

- 61STD: (HxWxD): 4" x 11" x 8" (10.2cm x 28cm x 20.3cm), Weight: 4.2 lbs. (1.9 kg)
- 61SG/SGD: (HxWxD) 6.5" x 7" x 8", 10lbs (16.5cm x 17cm x 20.3 cm, 4.5kg)
- Operating Temperature: -10° to 60° C
- Storage Temperature: -40° to 85° C
- Humidity: 10 to 95% non-condensing
- System Time Clock-Crystal controlled-1 ms resolution
- Power supply:
 - 61STD: 90-264 VAC 47-63 Hz, (125-220VDC optional)
 - 61SG/SGD: 90-250VAC 50/60Hz, 105-125VDC (90-250VDC optional)
- Built-in UPS with 15 minute internal battery, field replaceable
- Memory 1GB, internal

MISCELLANEOUS OPTIONS

- Enclosures: Weather resistant, rack, wall, switchgear
- CT's: Clamp-on, split core, solid core, flex, DC



61SGD



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