

The 7700 ION 1 Amp Option

The table below applies to the 1 Amp Current Input option.

Measurements

(@ 50 Hz/60 Hz @ 25°C) @ 5% to 125% Full Scale (FS) of input rating (50 mA to 1.25 A)

Parameter	Accuracy ± (%reading + %FS)		MGT Resolution (%FS)*		Register Bounds	
	1 second	1 cycle	1 second	1 cycle	1 second	1 cycle
Voltage (L-N) in Wye; Vab, Vbc in Delta	0.1% + 0.01%	0.5%+0.05%	0.1%	0.1% + 1 LSD†	0 to 1x10 ⁶	0 to 1x10 ⁶
Voltage (L-N) in Wye; Vca in Delta	0.5% + 0.01%	1.0%+0.1%	0.1%	0.1% + 1 LSD	0 to 2x10 ⁶	0 to 2x10 ⁶
Frequency	0.01%	0.1%	0.01 Hz	0.01 Hz	20 Hz to 70 Hz	20 Hz to 70 Hz
Current	0.1%+0.01%	0.5%+0.05%	0.1%	0.1% + 1 LSD	0 to 1x10 ⁶	0 to 1x10 ⁶
kVA	0.2%+0.02%	1.0%	0.1%	0.1% + 1 LSD	0 to 3.3x10 ⁷	0 to 3.3x10 ⁷
kVAh	0.2% reading	–	0.1% of reading	–	0 to 10 ³⁸	–
kW @ Unity PF (5% to 25% FS)	0.5%	2.5%+0.25%	0.1%	0.1% + 1 LSD	0 to ± 3.3x10 ⁷	0 to ±3.3x10 ⁷
kW @ Unity PF (25% to 125% FS)	0.3%	2.5%+0.25%	0.1%	0.1% + 1 LSD	0 to ± 3.3x10 ⁷	0 to ±3.3x10 ⁷
kW @ ±0.5 PF (5% to 25% FS)	0.6%	5.0%+0.5%	0.1%	0.1% + 1 LSD	0 to ± 3.3x10 ⁷	0 to ±3.3x10 ⁷
kW @ ±0.5 PF (25% to 125% FS)	0.4%	5.0%+0.5%	0.1%	0.1% + 1 LSD	0 to ± 3.3x10 ⁷	0 to ±3.3x10 ⁷
kVAR	0.55%+0.005%	2.5%+0.25%	0.1%	0.1% + 1 LSD	0 to ± 3.3x10 ⁷	0 to ±3.3x10 ⁷
kWh, kVARh @ Unity PF ‡	IEC 0.5 Class @ 25°C	–	0.1% of reading	–	0 to ± 10 ³⁸	–
kWh, kVARh @ ±0.5 PF ‡	IEC 0.5 Class @ 25°C	–	0.1% of reading	–	0 to ± 10 ³⁸	–
Harmonics (to 63rd)	1% Full Scale	–	0.1%	–	0.0001 to 100.00	–
K Factor	5% Full Scale	–	0.1%	–	0 to 1x10 ⁶	–
Power Factor @ Unity PF	0.55%+0.025%	3.5%+0.35%	0.01%	1%	-0.01 to -100.00, 100.00 to 0.01	-0 to 100 to 0
Power Factor @ .5 Lag & .5 Lead	0.75%+0.025%	6.0%+0.6%	0.01%	1%	-0.01 to -100.00, 100.00 to 0.01	-0 to 100 to 0
Symmetrical Components	1% Full Scale	–	0.1%	–	Magnitude: 0 to 1x10 ⁶ Phase: -180° to 180°	–

* Resolutions given are from the MGT. Higher resolution can be obtained via communications.

‡ Meets IEC 687 Class 0.5 above 5%

† LSD = least significant digit



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