Product Specifications				
Volt	**Model**	**Measurement Range**	**Resolution**	**Accuracy**
Vrms (AC + DC)		1 V to 1000 V phase to neutral	0.01 V	±0.1% of nominal
Vpk		1 Vpk to 1400 Vpk	1 V	5% of
Voltage Crest Factor (CF)		1.0 > 2.8	0.01	±5%
Vrms½			0.1 V	±0.2% of
Vfund			0.1 V	±0.1% of
Amps (accuracy excluding clamp accuracy)				
Amps (AC + DC)	**i430-Flex 1x**	5 A to 6000 A	1:00 AM	±0.5% ±5
	i430-Flex 10x	0.5 A to 600 A	0.1 A	±0.5% ±5
	1mV/A 1x	5 A to 2000 A	1A	±0.5% ±5
	1mV/A 10x	0.5 A A to 200 A (AC	0.1 A	±0.5% ±5
Apk	**i430-Flex**	8400 Apk	1 Arms	±5%
	1mV/A	5500 Apk	1 Arms	±5%
A Crest Factor (CF)		1 to 10	0.01	±5%
Amps½	**i430-Flex 1x**	5 A to 6000 A	1:00 AM	±1% ±10
	i430-Flex 10x	0.5 A to 600 A	0.1 A	±1% ±10
	1mV/A 1x	5 A to 2000 A	1:00 AM	±1% ±10
	1mV/A 10x	0.5 A A to 200 A (AC	0.1 A	±1% ±10
Afund	**i430-Flex 1x**	5 A to 6000 A	1:00 AM	±0.5% ±5
	i430-Flex 10x	0.5 A to 600 A	0.1 A	±0.5% ±5
	1mV/A 1x	5 A to 2000 A	1:00 AM	±0.5% ±5
	1mV/A 10x	0.5 A A to 200 A (AC	0.1 A	±0.5% ±5
Hz				
Fluke 434 @ 50 Hz Nominal		42.50 Hz to 57.50 Hz	0.01 Hz	±0.01 Hz
Fluke 434 @ 60 Hz Nominal		51.00 Hz to 69.00 Hz	0.01 Hz	±0.01 Hz
Power				
Watts (VA, var)	**i430-Flex**	max 6000 MW	0.1 W to 1	±1% ±10
	1 mV/A	max 2000 MW	0.1 W to 1	±1% ±10
Power Factor (Cos j/DPF)		0 to 1	0.001	±0.1% @ nominal
Energy				
kWh (kVAh, kvarh)	**i430-Flex 10x**	Depends on clamp scaling and V nominal		±1% ±10 counts

Energy Loss	**i430-Flex 10x**	Depends on clamp scaling and V		±1% ±10
Harmonics				
Harmonic Order (n)		DC, 1 to 50 Grouping: Harmonic groups according to IEC 61000-4-7		
Inter-Harmonic Order (n)		OFF, 1 to 50 Grouping: Harmonic and Interharmonic subgroups according to IEC		
Volts %	**f**	0.0% to 100%	0.10%	±0.1% ±n x
	r	0.0% to 100%	0.10%	±0.1% ±n x
	Absolute	0.0 to 1000 V	0.1 V	±5%[1]
	THD	0.0% to 100%	0.10%	±2.5%
Amps %	**f**	0.0% to 100%	0.10%	±0.1% ±n x
	r	0.0% to 100%	0.10%	±0.1% ±n x
	Absolute	0.0 to 600 A	0.1 A	±5% ±5
	THD	0.0% to 100%	0.10%	±2.5%
Watts %	**f or r**	0.0% to 100%	0.10%	±n x 2%
	Absolute	Depends on clamp	—	±5% ±n x
	THD	0.0% to 100%	0.10%	±5%
Phase Angle		-360° to +0°	1°	±n x 1°
Flicker				
Plt, Pst, Pst (1 min) Pinst		0.00 to 20.00	0.01	±5%
Unbalance				
Volts %		0.0% to 20.0%	0.10%	±0.1%
Amps %		0.0% to 20.0%	0.10%	±1%
Mains Signaling				
Threshold Levels		Threshold, limits and signaling duration is programable for two signaling frequencies	—	—
Signaling Frequency		60 Hz to 3000 Hz	0.1 Hz	
Relative V %		0% to 100%	0.10%	±0.4%
Absolute V3s (3 second avg.)		0.0 V to 1000 V	0.1 V	±5% of
General Specifications				
Case	Design Rugged, shock proof with integrated protective holster			
Display	Brightness: 200 cd/m 2 typ. using power adapter, 90 cd/m 2			
Memory	8GB SD card (SDHC compliant, FAT32 formatted) standard, upto			
Real-Time Clock	Time and date stamp for Trend mode, Transient display, System Monitor and event capture			

Environmental	
Operating Temperature	0°C ~ +40°C; +40°C ~ +50°C excl. battery
Storage Temperature	-20°C ~ +60°C
Humidity	+10°C ~ +30°C: 95% RH non-condensing +30°C ~ +40°C: 75% RH non-condensing +40°C ~ +50°C: 45% RH non-condensing
Maximum Operating Altitude	Up to 2,000 m (6666 ft) for CAT IV 600 V, CAT III 1000 V Up to 3,000 m (10,000 ft) for CAT III 600 V, CAT II 1000 V Maximum storage altitude 12 km (40,000 ft)
Electro-Magnetic-Compatibility (EMC)	EN 61326 (2005-12) for emission and immunity
Interfaces	Mini-USB-B, Isolated USB port for PC connectivity SD card slot
Warranty	Three years (parts and labor) on main instrument, one year on