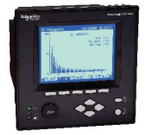
PowerLogic high-accuracy energy and power quality metering for every distribution point[1]

- Ideally suited for use in all electrical environments and compatible with PowerLogic software solutions.
- Standardised configuration, flexible customisation, modular I/O, communications and remote display options.
- Support for international industrial automation standards, form factors and protocols.

	Advanced revenue metering, energy metering and power quality analysis								Midrange energy metering and power quality analysis				Basic energy sub-metering			
																
Features[2]	ION8800			ION8600			ION7650	ION7550	PM870	PM850	PM820	PM810	PM750	PM710	ION6200	PM9C
	A	B	C	A	B	C										
Inputs, outputs and control power																
3-phase / single-phase	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■
Digital in and out / analogue in and out	16 /	16 /	16 /	16 / 4	16 / 4	16 / 4	20 / 8	20 / 8	18 / 8	18 / 8	18 / 8	18 / 8	3 /		2 /	
Power supply options	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC
Power and energy measurements																
Voltage, current, frequency, power factor	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Power, demand	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Energy / time-of-use (energy per shift)	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/	■/	■/	■/
IEC / ANSI energy accuracy class (% of reading)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	1.0	0.5	1.0
Loss compensation	■	■	■	■	■	■	■	■								
Power quality analysis																
EN50160 compliance reporting / IEC 61000-4-30 Class A standard	■/■	■/■		■/			■/■		■/	■/						
Flicker measurement	■	■		■			■									
Transient detection / disturbance direction	■/			■/			■/■	/■								
Sag / swell monitoring	■	■	■	■	■	■	■	■	■							
Harmonic distortion: individual / total	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	/■	/■	/■	
Uptime (number of 9's) calculation	■	■	■	■	■	■	■	■								
Waveform capture	■			■			■	■	■	■						
On-board data and event logging																
Trending / forecasting / billing	■/ /■	■/ /■	■/ /■	■/ /■	■/ /■	■/ /■	■/■/■	■/■/■	■/ /■	■/ /■	/ /■	/ /■				
Minimum / maximum	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Events and alarms with timestamps	■	■	■	■	■	■	■	■	■	■	■	■				
Timestamp resolution (seconds)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	1	1	1				
Computer-serial time sync. / Ethernet NTP time sync.	■/	■/	■/	■/	■/	■/	■/■	■/■	■/■	■/	■/	■/				
GPS time sync.: serial / IRIG-B / DCF-77	■/■/	■/■/	■/■/	■/■/	■/■/	■/■/	■/ /	■/ /	/ /■							
Setpoints, alarms and control																
Log alarm conditions / call out on alarm	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/			
Trigger data logging / waveform capture	■/■	■/	■/	■/■	■/	■/	■/■	■/■	■/■	■/■	■/	■/				
Trigger relay or digital output	■	■	■	■	■	■	■	■	■	■	■	■	■			
Special features																
Custom programming: arithmetic / boolean / modular	■/■/■	■/■/■	■/■/■	■/■/■	■/■/■	■/■/■	■/■/■	■/■/■	■/■/	■/■/	■/■/	■/■/	■/ /	■/ /	■/ /	
Downloadable firmware	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Communications																
Ports: Ethernet 10BaseT / 10BaseFL / 100BaseTX / 100BaseFX	■/■/ /	■/■/ /	■/■/ /	■/■/ /	■/■/ /	■/■/ /	■/■/■/■	■/■/■/■	■/ /■/	■/ /■/	■/ /■/	■/ /■/				
Ethernet-to-serial gateway	■	■	■	■	■	■	■	■	■	■	■	■				
Telephone modem	■	■	■	■	■	■	■	■								
Modem-to-serial gateway	■	■	■	■	■	■	■	■								
Infrared	■	■	■	■	■	■	■	■								
RS485 / RS232	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/■	■/	■/	■/	■/
Web server / email / SNMP / XML	■/■/ /■	■/■/ /■	■/■/ /■	■/■/ /■	■/■/ /■	■/■/ /■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■				
Protocols: Modbus[3] / DNP / MV-90 / DLMS	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/	■/■/■/	■/■/■/	■/■/■/	■/■/■/	■/ / /	■/ / /	■/ / /	■/ / /	■/ / /	■/ / /	■/ / /	■/ / /