

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION 8600.

Model	Feature set	Form Factor	Current inputs	Voltage inputs	Power supply	System Freq	Comm	I/O	Security	Special Order
P8600				0						

ION 8600	Order Code	Description
Model	P8600	ION 8600 Advanced Revenue Meter
Feature Set	A	10MB memory, 50 data recorders (800 channels), waveform recorders and transient detection
	B	4MB memory, 20 data recorders (320 channels), MODBUS Mastering
	C	2MB memory, 2 data recorders (32 channels), sag/swell detection
Form Factor	0	Form 9S Base: 57-277 V (autoranging) 3-Element, 4-Wire
	1	Form 35S Base: 120-480 V (autoranging) 2-Element, 3-Wire
	2	Form 36S Base: 57-277 V (autoranging) 2 1/2-Element, 4-Wire
	3	Form 39S with neutral current input (15 Terminal Base): 57-277 V (autoranging) 3-Element, 4-Wire
	N	Form 76S with neutral current input (15 Terminal Base): 57-277 V (autoranging) 2 1/2-Element, 4-Wire
	4	Form 9 FT21 Switchboard (meter + case) with break out panel
	5	Form 35 FT21 Switchboard (meter + case) with break out panel
	6	Form 36 FT21 Switchboard (meter + case) with break out panel
	7	Form 9 FT21 Switchboard (meter + case) with break out cable
	8	Form 35 FT21 Switchboard (meter + case) with break out cable
9	Form 36 FT21 Switchboard (meter + case) with break out cable	
Current Inputs	C	5 Amp nominal, 20 Amp full scale (50 Amp fault capture, start at 0.005A, accurate from 0.05 - 20A RMS)
	E	1 Amp nominal, 10 Amp full scale (24 Amp fault capture, start at 0.001A, accurate from 0.01 - 20A RMS)
Voltage Inputs	0	Standard (see Form Factor above)
Power Supply	E	Form 9S, 36S, 39S, 76S (socket) and Form 9, 36 (FT21 switchboard): 120-277 VAC. Form 35S (socket) and Form 35 (FT21 switchboard): 120-480 VAC. Powered from the meter's voltage connections.
	G	Form 9S, 36S (socket) and Form 9, 36 (FT21 switchboard): 57-70 VAC. Powered from the meter's voltage connections. NOT AVAILABLE on Form 35S and Form 35 - you must select the auxiliary power pigtail.
	H	Auxiliary Power Pigtail: 65-120 VAC or 80-160 VDC (power from external source)
	J	Auxiliary Power Pigtail: 160-277 VAC or 200-350 VDC (power from external source)
System Frequency	5	Calibrated for 50 Hz systems - NOT AVAILABLE with RMICAN or RMICAN-SEAL options
	6	Calibrated for 60 Hz systems
Communications	A0	RS-232/RS-485 port, RS-485 port, Infrared port
	C1	Ethernet (10BaseT), 33.6k universal internal modem (RJ11), Infrared Optical port. RS-232/485 port (note this port is not available with Feature Set C).
	C2	Same as C1, but with RJ31 connector for the modem
	E0	Ethernet (10BaseT), RS-232/485 port, Infrared Optical port, RS-485 port (note this port is not available with Feature Set C)
	F0	Ethernet (10BaseFL), RS-232/485 port, Infrared Optical port, RS-485 port (note this port is not available with Feature Set C) This option is not available with FT21 switchboard form factors (Form Factor options 4 through 9).
	M1	33.6k universal internal modem (RJ11), RS-232/485 port, Infrared Optical port, RS-485 port (note this port is not available with Feature Set C)
Onboard I/O	A	None
	B	4 Form C (KYZ) digital outputs and 3 Form A digital inputs
Security	0	Password protected, no security lock - NOT AVAILABLE in Canada
	1	Password protected with security lock enabled (requires removal of outer cover to configure billing parameters) - NOT AVAILABLE in Canada
	3	RMICAN (Measurement Canada approved)
	4	** RMICAN-SEAL (Measurement Canada approved, and factory sealed)
Special Order	A	None
	B	IRIG-B GPS time synchronization port
	K	*** Customer supplied template (frameworks) installed at the factory
	L	*** Customer supplied template (frameworks) and IRIG-B GPS time synchronization port

* To add custom text to your meter's nameplate label, fill out the [ION 8600 Custom Nameplate](#) form and submit it with your order.

** A filled-out [ION 8600 RMICAN-SEAL Checklist](#) must accompany each RMICAN-SEAL meter order.

*** For Special Order "K" and "L", you must also order the part number **CUST-TEMP-SETUP** (see ION 8600 Related Items section). When the template (framework) is received, the factory will issue a 5-digit code that will be appended to the ION 8600 part number.

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your I/O Expander.

I/O Expander	I/O Option	Cable Length
P850E		

ION 8600 I/O Expander*	Order Code	Description
Digital/Analog I/O	P850E	I/O Expander for ION 8600 meters: Inputs and Outputs for energy pulsing, control, energy counting, status monitoring, and analog interface to SCADA.
I/O Option	A	External I/O box with 8 digital inputs and 8 digital outputs (4 Form A, 4 Form C)
	B	External I/O box with 8 digital inputs and 4 digital outputs (4 Form C) and 4 analog outputs (0 to 20mA)
	C	External I/O box with 8 digital inputs and 4 digital outputs (4 Form C) and 4 analog outputs (-1mA to 1mA)
	D	External I/O box with 8 digital inputs and 4 digital outputs (4 Form C) and 4 analog outputs (two -1 to 1 mA, and two 0 to 20 mA outputs)
Cable Option	0	No cable
	1	5ft extension cable, 24-pin male to 24-pin female Molex connector (not for use with breakout panel E8, F8 & G8 form factors)
	2	15ft extension cable, 24-pin male to 24-pin female Molex connector (not for use with breakout panel E8, F8 & G8 form factors)
	3	6ft connector cable, 24-pin male to 14-pin male Molex connector (for breakout panel E8, F8 & G8 form factors)

* The I/O Expander is also supported on legacy meters ION 8300, ION 8400 and ION 8500

ION 8600 Related Items*	
DOC-BINDER-265	Comprehensive technical documentation binder for the ION 8600 meters
DOC-UGUIDE-265	ION 8600 User Guide (inside a 1" binder)
A-BASE-ADAPTER-9	Form 9S to Form 9A adapter (http://www.pwr.com/products/socket_adapters/)
A-BASE-ADAPTER-35	Form 35S to Form 35A adapter (http://www.pwr.com/products/socket_adapters/)
A-BASE-ADAPTER-39	Form 39S to Form 39A adapter (http://www.pwr.com/products/socket_adapters/)
A-BASE-ADAPTER-76	Form 76S to Form 76A adapter (http://www.pwr.com/products/socket_adapters/)
OPTICAL-PROBE	Serial Optical Probe (DB-9) via IR port
CBL-8X00BRKOUT	5ft Breakout Cable: 24-pin female Molex connector to one DB9 female connector for RS-232, and 2 sets of twisted pair wires for two RS-485 port connections
CBL-8X00IOE5FT	5ft extension cable, mates with 24-pin male Molex connector from the meter to the 24-pin female Molex connector on the I/O Expander box (not for use with breakout panel E8, F8 & G8 form factors)
CBL-8X00IOE15FT	15ft extension cable, mates with 24-pin male Molex connector from the meter to the 24-pin female Molex connector on the I/O Expander box (not for use with breakout panel E8, F8 & G8 form factors)
CBL-8XX0-BOP-IOBOX	6ft connector cable, 24-pin male to 14-pin male Molex connector for connecting an ION 8000 series meter with breakout panel to an I/O Expander Box
CUST-TEMP-SETUP	Set up (or modification) charge for customer supplied template (framework) at time of shipment
BATT-REPLACE-8XXX	Replacement batteries for the ION 8600, quantity 10
ION-SETUP	Configuration software for ION 8600 meters. Ships on a CD.

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