

ION Product Part Number Guide

March 2015

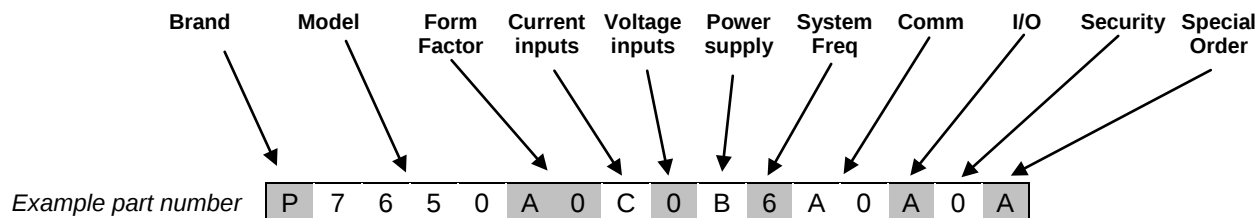


How to print single pages

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How to determine your meter part number

1. Select one Order Code from each of the ordering categories.
2. Combine these order codes to form the part number for your particular meter configuration.
3. Use that part number when you fill out your purchase order.



In the above example, the part number P7650A0C0B6E0A0A corresponds to:

Brand:	P	Schneider Electric brand
Model:	7650	ION7650 power meter
Form Factor:	A0	Integrated display with front optical port, 5 MB logging memory, and 512 samples/cycle resolution.
Current Inputs:	C	5A nominal, 20A full scale current inputs
Voltage Inputs:	0	57 to 347 VAC line-to-neutral / 100 to 600 VAC line-to-line
Power Supply:	B	85-240 VAC, $\pm 10\%$ /47-63 Hz/110-300 VDC, $\pm 10\%$
System Frequency:	6	Calibrated for 60 Hz systems
Communications:	A0	1 RS-232/RS-485 port, 1 RS-485 port, infrared optical port.
Onboard I/O:	A	8 digital inputs, 3 Form C relays, 4 Form A solid-state outputs
Security:	0	Password protected, no hardware lock
Special Order:	A	None

Revision History

Rev	Date	Description of change
20	September 7, 2005	Added PQDIF Exporter add-on part numbers to ION Enterprise 5.5 section. Added RS-485/Modbus communications option to ION6300. Modified ION Wireless Repeater part number and ION6100 & ION6300 options code scheme (combined last three option code characters into one field). Replaced ION8300/8400/8500 technical documentation/user guide part numbers with ION8600 part numbers.
21	September 19, 2005	Part number corrections for accessories.
22	October 12, 2005	Removed "power cord" from –UNI option for the COM128 and COM32 products.
23	December 2, 2005	Removed ION8600 "future release" options (C5, M5).
24	December 22, 2005	Modified ION6300 meter type description. Corrected description for CBL-8X00-IOE15FT.
25	January 12, 2006	Added RMICAN options for ION8600. Removed 8300/8400/8500 sections.
26	April 19, 2006	Description for ION8600 current input option "E" corrected to 10A. Added ION6200 RMD without cable option.
27	May 2006	Added ION8800 product
28	June 2006	Schneider Electric rebranding. Added new brand labels for Square D and Merlin Gerin meters. Removed MGT options from ION7700 product, per MGT Obsolescence Bulletin. Fixed ION8600 description for Ethernet Fiber and onboard I/O options.
29	July 2006	Add OFGEM option to ION7550 and ION7650
30	August 2006	Schneider Electric rebranding. Added new brand labels for Square D and Merlin Gerin meters.
31	September 2006	New comm card for ION8600 (supports 56k modem)
32	October 2006	Removed 3000 series meters
33	November 2006	Added RMICAN options to ION7550 / ION7650 Removed DOC-UGUIDE-204 and DOC-UGUIDE-205 from ION Enterprise Documentation section
34	February 2007	Added note to OPTICAL-PROBE-USB part description
35	April 2007	Added ION8800 IRIG-B options. Updated ION Enterprise part numbers (version 5.6). Improved description of cable options for 8600 I/O Expander.
36	July 2007	Corrected description of ION8600 current input option "E". (upper limit on accuracy should be 10A RMS)
37	November 2007	New communications card options for ION7550/ION7650. Minor textual changes for ION Enterprise product. Removed all DOC-BINDER and DOC-UGUIDE part numbers.
38	December 2007	Added "IEC 61000-4-30 Class A measurements" description to ION7650 Special Options "E" and "F".
39	March 2008	Add new communications card options to ION7550 RTU (same change as for the ION7550/ION7650).
40	May 2008	Removed CTs, VTs and terminal blocks. Removed ION7700 product line (obsolete).
41	July 2008	Changed description of brand code "M" from "Merlin Gerin" to "Schneider Electric".
42	September 2008	Removed COM32 and COM128 products. Minor change to the ION8600 C1 communications option description.
43	January 2009	O2 initiative changes (reduced option set for the ION7300 series and ION7550/ION7650). Made the Power Measurement brand obsolete and changed it to Schneider Electric.
44	July 2009	ION Enterprise 5.6 information exchanged for ION Enterprise 6.0.
45	March 2015	Added 8650, removed 8600, updated I/O options, Updated PS options, removed software.

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Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION8650.

Brand	Model	Feature set	Form Factor	Current inputs	Voltage inputs	Power supply	System Freq	Comm	I/O	Security	Special Order
M	8650										

ION8650	Order Code	Description
Brand	M	Schneider Electric branded
Model	8650	ION8650 advanced revenue meter with Class 0.1 accuracy + IRIG-B
Feature Set	A	128MB Memory - Feature Set B + Class A power quality analysis (waveforms and transient capture with 1024 samples/cycle resolution)
	B	64MB Memory - Energy meter + Class S + EN50160 power quality monitoring
	C	32MB Memory - Basic Tariff/Energy meter (4 data recorders - 64 channels)
Form Factor	0	Form 9/29/36S Base - 57-277 VLN (autoranging) 3-Element, 4-Wire / 2 1/2-Element,
	1	Form 35S Base - 120-480 VLL (autoranging) 2-Element, 3-Wire
	4	Form 9/29/35/36S FT21 Switchboard (meter + case) with break out panel
	7	Form 9/29/35/36S FT21 Switchboard (meter + case) with break out cable
Current Inputs	C	1, 2 or 5 Amp nominal, 20 Amp full scale current input (24 Amp fault capture, start at 0.001A)
Voltage Inputs	0	Standard (see Form Factor above)
Power Supply	E	Form 9S, 36S (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, low end measurement range limited to 120VLL.
	H	Auxiliary Power Pigtail: 65-120 VAC, 80-160 VDC (power from external source)
	J	Auxiliary Power Pigtail: 160-277 VAC, 200-350 VDC (power from external source)
System Frequency	5	50 Hz
	6	60 Hz
Communications	A0	Infrared port, RS-232/RS-485 port, RS-485 port
	C7	Infrared Optical port, Ethernet (10/100BASE-T), RS-232/485 port, RS-485 port (Note: in addition to Infrared Optical port Feature Set C can use any two ports (configurable), 56k universal internal modem (RJ11))
	E1	Infrared Optical port, Ethernet (10/100BASE-T), RS-232/485 port, RS-485 port (Note: in addition to Infrared Optical port Feature Set C can use any two ports (configurable))
	M1	33.6k universal internal modem (RJ11), RS-232/485 port, Infrared Optical port, RS-485 port (not available with Feature Set C)
Input/Output Option	A	None
	B	4 Form C Digital Outputs , 3 Digital Inputs
	C	4 Form C Digital Outputs , 1 Form A Digital Output, 1 Digital Input (Required for RMICAN)
Security	0	Password protected, no security lock
	1	Password protected with security lock enabled
	3	RMICAN Measurement Canada approved, security lock enabled (only available with I/O Option C)
	4	RMICAN-SEAL Measurement Canada approved, factory sealed, security lock enabled (only available with I/O Option C)
Special Order	A	None

To add custom text to your meter's nameplate label, fill out the [ION8650 Custom Nameplate](#) form and submit it with your order.

** A filled-out [ION8650 RMICAN-SEAL Checklist](#) must accompany each RMICAN-SEAL meter order.

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.

Brand	I/O Expander	I/O Option	Cable Length
P	850E		0

ION8600 I/O Expander*	Order Code	Description
Brand	P	Schneider Electric brand
Digital/Analog I/O	850E	I/O Expander for ION8600 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 ** Note: Cables ordered separately. Order options can be found in 'ION8600 Series Related items section below.

ION8600 Related Items*	
A-BASE-ADAPTER-9	Form 9S to Form 9A adapter (http://www.pwrn.com/products/socket_adapters/)
A-BASE-ADAPTER-35	Form 35S to Form 35A adapter (http://www.pwrn.com/products/socket_adapters/)
OPTICAL-PROBE	Serial Optical Probe (DB-9) via IR port
OPTICAL-PROBE-USB	Serial Optical Probe (USB) via IR port. Note: This probe supports all ION meters with ANSI optical ports except ION8600 meters manufactured before November 2006.
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 ION8000 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 ION8600, quantity 10

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION7650.

Brand	Model	Form Factor	Current inputs	Voltage inputs	Power supply	System Freq	Comm	I/O	Security	Special Order
P	7650			0						

ION7650	Order Code	Description
Brand	P	Schneider Electric branded
Model	7650	ION7650: Advanced meter with wide-range voltage inputs (57-347V line-neutral or 100-600V line-line), transient detection, data and waveform recording. Supports ION, Modbus-RTU, and DNP 3.0 protocols.
Form Factor	A0	Integrated display with front optical port, 5 MB logging memory, and 512 samples/cycle resolution.
	A1	Integrated display with front optical port, 5 MB logging memory, and 1024 samples/cycle resolution.
	B0	Integrated display with front optical port, 10 MB logging memory, and 512 samples/cycle resolution.
	B1	Integrated display with front optical port, 10 MB logging memory, and 1024 samples/cycle resolution.
	T0	Transducer (no display) version, with 5 MB logging memory, and 512 samples/cycle resolution.
	T1	Transducer (no display) version, with 5 MB logging memory, and 1024 samples/cycle resolution.
	U0	Transducer (no display) version, with 10 MB logging memory, and 512 samples/cycle resolution.
	U1	Transducer (no display) version, with 10 MB logging memory, and 1024 samples/cycle resolution.
Current Inputs	C	5 Amp nominal, 20 Amp full scale current input
	E	1 Amp nominal, 10 Amp full scale current input
	F	Current Probe Inputs (for use with 0-1 VAC current probes; probes sold separately) - NOT AVAILABLE with OFGEM option
	G	Current Probe Inputs with three Universal Technic 10A clamp on CTs; meets IEC 1036 accuracy - NOT AVAILABLE with OFGEM option
Voltage Inputs	0	57 to 347 VAC line-to-neutral / 100 to 600 VAC line-to-line
Power Supply	B	Standard power supply (85-240 VAC, $\pm 10\%$ /47-63 Hz / 110-300 VDC, $\pm 10\%$)
	C	Low voltage DC power supply (20-60 VDC)
System Frequency	5	Calibrated for 50 Hz systems
	6	Calibrated for 60 Hz systems. NOT AVAILABLE with OFGEM option
Communications	A0	Standard communications (1 RS-232/RS-485 port, 1 RS-485 port). Integrated display models also include 1 ANSI Type 2 optical communications port.
	C1	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45), 56k universal internal modem (RJ-11). Ethernet and modem gateway functions each use a serial communications port.
	D7	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45) and 100BASE-FX Ethernet Fiber, 56k universal internal modem (RJ-11). Ethernet and modem gateway functions each use a serial communications port.
	E0	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45). Ethernet gateway function uses a serial communications port.
	F1	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45) and 100BASE-FX (SC fiber optic connection). Ethernet gateway function uses a serial communications port.
	M1	Standard communications plus 56k universal internal modem (RJ-11). Modem gateway function uses a serial communications port.
I/O	A	Standard I/O (8 digital inputs, 3 Form C relays, 4 Form A solid-state outputs)
	E	Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 20 mA analog inputs)
	K	Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 20 mA analog outputs)
	N	Standard I/O plus Expansion I/O card (8 additional Digital In & four 0 to 20 mA analog inputs & four 0 to 20 mA outputs)
	P	Standard I/O plus Expansion I/O card (8 additional Digital In & four 0 to 1 Analog Inputs & four -1 to 1 mA analog outputs)
Security	0	Password protected, no hardware lock
	1	Password protected and hardware lockable (lock enabled/disabled via jumper on comm card)
	3	*RMICAN Measurement Canada approved, security lock enabled
	4	*RMICAN-SEAL Measurement Canada approved, factory sealed, security lock enabled
Special Order	A	None
	C	Tropicalization treatment applied
	E	EN50160 compliance monitoring and IEC 61000 4-30 Class A measurements, no tropicalization treatment
	F	EN50160 compliance monitoring and IEC 61000 4-30 Class A measurements, with tropicalization treatment

* RMICAN approval for Delta mode sealing is not yet available. Please contact factory for details.

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION7550.

Brand	Model	Form Factor	Current inputs	Voltage inputs	Power supply	System Freq	Comm	I/O	Security	Special Order
P	7550			0						

ION7550	Order Code	Description
Brand	P	Schneider Electric branded
Model	7550	ION7550: Advanced meter with wide-range voltage inputs (57-347 line-neutral or 100-600V line-line), sag/swell detection, data and waveform recording, and 256 samples/cycle resolution. Supports ION, Modbus RTU and DNP 3.0 protocols.
Form Factor	A0	Integrated display with front optical port and 5 MB logging memory
	B0	Integrated display with front optical port and 10 MB logging memory.
	T0	Transducer (no display) version, with 5 MB logging memory.
	U0	Transducer (no display) version, with 10 MB logging memory.
Current Inputs	C	5 Amp nominal, 20 Amp full scale current input
	E	1 Amp nominal, 10 Amp full scale current input
	F	Current Probe Inputs (for use with 0-1 VAC current probes; probes sold separately) - NOT AVAILABLE with OFGEM option
	G	Current Probe Inputs with three Universal Technic 10A clamp on CTs; meets IEC 1036 accuracy - NOT AVAILABLE with OFGEM option
Voltage Inputs	0	57 to 347 VAC line-to-neutral / 100 to 600 VAC line-to-line
Power Supply	B	Standard power supply (85-240 VAC, $\pm 10\%$ /47-63 Hz / 110-300 VDC, $\pm 10\%$)
	C	Low voltage DC power supply (20-60 VDC)
System Frequency	5	Calibrated for 50 Hz systems
	6	Calibrated for 60 Hz systems. NOT AVAILABLE with OFGEM option
Communications	A0	Standard communications (1 RS-232/RS-485 port, 1 RS-485 port). Integrated display models also include 1 ANSI Type 2 optical communications port.
	C1	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45), 56k universal internal modem (RJ-11). Ethernet and modem gateway functions each use a serial communications port.
	D7	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45) and 100BASE-FX Ethernet Fiber, 56k universal internal modem (RJ-11). Ethernet and modem gateway functions each use a serial communications port.
	E0	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45). Ethernet gateway function uses a serial communications port.
	F1	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45) and 100BASE-FX (SC fiber optic connection). Ethernet gateway function uses a serial communications port.
	M1	Standard communications plus 56k universal internal modem (RJ-11). Modem gateway function uses a serial communications port.
I/O	A	Standard I/O (8 digital inputs, 3 Form C relays, 4 Form A solid-state outputs)
	E	Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 20 mA analog inputs)
	K	Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 20 mA analog outputs)
	N	Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 20 mA analog inputs and four 0 to 20 mA outputs)
	P	Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 1 analog inputs & four -1 to 1 mA analog outputs)
Security	0	Password protected, no hardware lock
	1	Password protected and hardware lockable (lock enabled/disabled via jumper on comm card)
	3	*RMICAN Measurement Canada approved, security lock enabled
	4	*RMICAN-SEAL Measurement Canada approved, factory sealed, security lock enabled
Special Order	A	None
	C	Tropicalization treatment applied

* RMICAN approval for Delta mode sealing is not yet available. Please contact factory for details.

ION7550 / ION7650 Comm Cards, Expansion I/O Cards and related items are listed on pages 101.

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION7550 RTU.

Brand	Model	Form Factor	RTU Option	Power supply	Internal Use	Comm	I/O	Security	Special Order
P	7550		N9		9				

ION7550 RTU	Order Code	Description
Brand	P	Schneider Electric branded
Model	7550	ION7550 device
Form Factor	A0	Integrated display with front optical port and 5 MB logging memory
	B0	Integrated display with front optical port and 10 MB logging memory.
	T0	Transducer (no display) version, with 5 MB logging memory.
	U0	Transducer (no display) version, with 10 MB logging memory.
RTU Option	N9	RTU option
Power Supply	B	Standard power supply (85-240 VAC, ±10%/47-63 Hz / 110-300 VDC, ±10%)
	C	Low voltage DC power supply (18-75 VDC)
Internal Use	9	This field for internal use only
Communications	A0	Standard communications (1 RS-232/RS-485 port, 1 RS-485 port). Integrated display models also include 1 ANSI Type 2 optical communications port.
	C1	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45), 56k universal internal modem (RJ-11). Ethernet and modem gateway functions each use a serial communications port.
	D7	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45) and 100BASE-FX Ethernet Fiber, 56k universal internal modem (RJ-11). Ethernet and modem gateway functions each use a serial communications port.
	E0	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45). Ethernet gateway function uses a serial communications port.
	F1	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45) and 100BASE-FX (SC fiber optic connection). Ethernet gateway function uses a serial communications port.
	M1	Standard communications plus 56k universal internal modem (RJ-11). Modem gateway function uses a serial communications port.
I/O	A	Standard I/O (8 digital inputs, 3 Form C relays, 4 Form A solid-state outputs)
	E	Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 20 mA analog inputs)
	K	Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 20 mA analog outputs)
	N	Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 20 mA analog inputs and four 0 to 20 mA outputs)
	P	Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 1 analog inputs & four -1 to 1 mA analog outputs)
Security	0	Password protected
Special Order	A	None
	C	Tropicalization treatment applied

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your **ION7550/7650** Comm Card.

Comm Card	Type	Special Order
P765C		

ION7550 / 7650 Comm Card*	Order Code	Description
Comm Card	P765C	ION7550 / ION7650 Communications card for field retrofit installations
Type	A0	Standard communications (1 RS-232/RS-485 port, 1 RS-485 port). Front optical port support for meters with integrated display.
	C1	Standard communications plus 10BASE-T/100BASE-TX Ethernet (RJ-45), 56k universal internal modem (RJ-11; the modem port is shared with the front optical port). Ethernet and modem gateway functions each use a serial communications port.
	D7	Standard communications plus 10BASE-T/100BASE-TX Ethernet, 100BASE-FX Ethernet Fiber, 56k universal internal modem (RJ-11; the modem port is shared with the front optical port). Ethernet and modem gateway functions each use a serial communications port.
	E0	Standard communications plus 10BASE-T/100BASE-TX Ethernet. Ethernet gateway function uses a serial communications port.
	F1	Standard communications plus 10BASE-T/100BASE-TX Ethernet, 100BASE-FX Ethernet Fiber (SC fiber optic connection). Ethernet gateway function uses a serial communications port.
	M1	Standard communications plus 56k universal internal modem (RJ-11; the modem port is shared with the front optical port). Modem gateway function uses a serial communications port.
Special Order	A	None
	C	Tropicalization treatment applied

* Firmware v350 or higher required.

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your **ION7550/7650** I/O Card.

Expansion I/O	Type	Special Order
P760A		

ION7550/7650 Expansion I/O	Order Code	Description
I/O Card	P760A	ION7550 / ION7650 Expansion I/O card for field retrofit installations
	E	Expansion I/O card with eight digital inputs, four 0 to 20 mA analog inputs
	K	Expansion I/O card with eight digital inputs, four 0 to 20 mA analog outputs
	N	Expansion I/O card with eight digital inputs, four 0 to 20 mA analog inputs & four 0 to 20 mA outputs
	P	Expansion I/O card with eight digital inputs, four 0 to 1 analog inputs and four -1 to 1 mA analog outputs
Special Order	A	None
	C	Tropicalization treatment applied

External I/O Boards and Modules

Compatible I/O boards and modules can be ordered from the Grayhill website.

To find a distributor, visit <http://grayhill.com/wherebuy/where-to-buy.html>

ION7550 and ION7650 Related Items

ADPT-37XX-7500	Adapter plate enabling the 7550 or 7650 to fit into a 3710 or 3720 ACM panel cutout
TERMCVR-7500	Terminal strip cover for the 7550 or 7650
M1UB10A1V-10A	10 A / 1 VAC Universal Technic Clamp On Current Probe
P32UEP813-1000A	1000 A / 1 VAC Universal Technic Clamp On Current Probe
P32UEP815-3000A	3000 A / 1 VAC Universal Technic Clamp On Current Probe
SCT0750-005-5A	5 A / 0.333 VAC Magne Labs Split Core Current Probe
SCT1250-300-300A	300 A / 0.333 VAC Magne Labs Split Core Current Probe
OPTICAL-PROBE	Serial Optical Probe (DB-9) via IR port
OPTICAL-PROBE-USB	USB Optical Probe (DB-9) via IR port
P765GSKT	Gasket for ION7x50 meters and RTU - IP 52 & UL NEMA 12
M765RD	ION7550/7650 remote display, Schneider Electric branded
M765RDPS	ION7550/7650 remote display kit, includes display, 24 VDC power supply and Ethernet cable, Schneider Electric branded

Brand	Model	Form Factor	Current inputs	Voltage inputs	Power supply	System Freq	Comm	I/O	Security	Special Order
P	7350		B	0						

ION7350	Order Code	Description
Brand	P	Schneider Electric branded
Model	7350	ION7350: Advanced power meter with basic sag/swell detection, waveform recording, harmonics (up to the 31st), high-speed data logging and automatic modem dial-out, multiport communications, 4 digital inputs and 4 digital outputs.
Form Factor	A0	Integrated display, with front optical port
	R0	Transducer with RMD (remote display), with front optical port. DOES NOT support Analog Input and/or Analog Output options.
	R1	Same as R0, but with DIN rail mounts on the transducer. DOES NOT support Analog Input and/or Analog Output options.
	T0	Transducer (no display). Note you cannot use an RMD on this meter if you order the Analog Input and/or Analog Output options.
	T1	Transducer (no display) with DIN rail mount. Note you cannot use an RMD on this meter if you order the Analog Input and/or Analog Output options.
Current Inputs	B	5 Amp nominal, 10 Amp full scale current input
Voltage Inputs	0	Autoranging (50 to 347 VAC +25%)
Power Supply	B	P240 power supply (95-240VAC/47-440Hz/120-310 VDC)
	C	P24 power supply (20 to 65 VDC)
System Frequency	0	Autoranging (50 and 60 Hz)
	6	60Hz (use this option if security option 3 or 4 is selected)
Communications	A0	Two RS-485 ports.
	C1	One RS-485 EtherGate port, one RS-485 ModemGate port, 10BASE-T Ethernet (RJ-45), 33.6k universal internal modem (RJ-11). DOES NOT support Analog Input and/or Analog Output options.
	E0	One 10BASE-T Ethernet (RJ-45) port, one RS-485 port, one RS-485 EtherGate port.. DOES NOT support Analog Input and/or Analog Output options.
	M1	One 33.6k universal internal modem (RJ-11) port, one RS-485 port, one RS-485 ModemGate port.
I/O	A	No analog inputs/outputs. You must choose this option if ordering RMD remote display option (Form Factor type "R1") or Ethernet port options (Communications types "C1" or "E0").
	M	Four 0 to 1 mA analog inputs & four 0 to 1 mA analog outputs. NOT AVAILABLE with RMD or Ethernet options
	N	Four 0 to 20 mA analog inputs & four 0 to 20 mA analog outputs. NOT AVAILABLE with RMD or Ethernet options
Security	0	Password protected, no hardware lock
	2	Password protected with hardware lock enabled
	3	RMICAN Measurement Canada approved, security lock enabled (must be form factor 'A0')
	4	RMICAN-SEAL Measurement Canada approved, factory sealed, security lock enabled (must be form factor 'A0')
Special Order	A	None
	B	Pre-set to MODBUS (available for Form Factor T0 and T1 only)
	C	Tropicalization treatment applied
	D	Tropicalization treatment applied and pre-set to MODBUS (available for Form Factor T0 and T1 only)

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION7330.

Brand	Model	Form Factor	Current inputs	Voltage inputs	Power supply	System Freq	Comm	I/O	Security	Special Order
P	7330									

ION7330	Order Code	Description
Brand	P	Schneider Electric branded
Model	7330	ION7330: Advanced power meter with over 200 high accuracy, 3-phase measurements, data logging, multiport communications, 4 digital inputs and 4 outputs.
Form Factor	A0	Integrated display, with front optical port
	R0	Transducer with RMD (remote display), with front optical port. DOES NOT support Analog Input and/or Analog Output options. Not available with Security options RMICAN or RMICAN-SEAL.
	R1	Same as R0, but with DIN rail mounts on the transducer. DOES NOT support Analog Input and/or Analog Output options. Not available with Security options RMICAN or RMICAN-SEAL.
	T0	Transducer (no display). Note you cannot use an RMD on this meter if you order the Analog Input and/or Analog Output options. Not available with Security options RMICAN or RMICAN-SEAL.
	T1	Transducer (no display) with DIN rail mount. Note you cannot use an RMD on this meter if you order the Analog Input and/or Analog Output options. Not available with Security options RMICAN or RMICAN-SEAL.
Current Inputs	B	5 Amp nominal, 10 Amp full scale current input
Voltage Inputs	0	Autoranging (50 to 347 VAC +25%)
Power Supply	B	P240 power supply (95-240VAC/47-440Hz/120-310 VDC)
	C	P24 power supply (20 to 65 VDC)
System Frequency	0	Autoranging (50 and 60 Hz)
Communications	A0	Two RS-485 ports.
	C1	One RS-485 EtherGate port, one RS-485 ModemGate port, 10BASE-T Ethernet (RJ-45), 33.6k universal internal modem (RJ-11). DOES NOT support Analog Input and/or Analog Output options.
	E0	One 10BASE-T Ethernet (RJ-45) port, one RS-485 port, one RS-485 EtherGate port.. DOES NOT support Analog Input and/or Analog Output options.
	M1	One 33.6k universal internal modem (RJ-11) port, one RS-485 port, one RS-485 ModemGate port.
I/O	A	No analog inputs/outputs. You must choose this option if ordering RMD remote display option (Form Factor type "R0" or "R1") or Ethernet port options (Communications types "C1" or "E0").
	M	Four 0 to 1 mA analog inputs & four 0 to 1 mA analog outputs. NOT AVAILABLE with RMD or Ethernet options
	N	Four 0 to 20 mA analog inputs & four 0 to 20 mA analog outputs. NOT AVAILABLE with RMD or Ethernet options
Security	0	Password protected, no hardware lock
	2	Password protected with hardware lock enabled
	3	RMICAN Measurement Canada approved, security lock enabled (must be form factor 'A0')
	4	RMICAN-SEAL Measurement Canada approved, factory sealed, security lock enabled (must be form factor 'A0')
Special Order	A	None
	B	Pre-set to MODBUS (available for Form Factor T0 and T1 only). Not available with Security options RMICAN or RMICAN-SEAL.
	C	Tropicalization treatment applied
	D	Tropicalization treatment applied and pre-set to MODBUS (available for Form Factor T0 and T1 only). Not available with Security options RMICAN or RMICAN-SEAL.

** A filled-out [ION7300 Series RMICAN-SEAL Checklist](#) must accompany each RMICAN-SEAL meter order.

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION7300/ION7330/ION7350 Remote Modular Display.

Brand Display Type

P	
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ION7300 Remote Display	Order Code	Description
Brand	P	Schneider Electric branded
	RMD-7330	ION7330 Remote Modular Display with 6 ft. DB25 cable
	RMD-7350	ION7350 Remote Modular Display with 6 ft. DB25 cable

* Remote Modular Display cannot be used with TRAN units that contain an analog I/O card

External I/O Boards and Modules

Compatible I/O boards and modules can be ordered from the Grayhill website.

To find a distributor, visit <http://grayhill.com/wherebuy/where-to-buy.html>

ION7300 Series Related Items

GSKT	Water resistant gasket
RMKEY-73	Header/jumper key for revenue meter programming
OPTICAL-PROBE	Serial Optical Probe (DB-9) via IR port
OPTICAL-PROBE-USB	Serial Optical Probe (USB) via IR port
ACCUREPORT	Factory generated accuracy graph
TERMCVR-73XX	Terminal strip cover

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION6200.

Brand	Model	Form Factor	Current inputs	Voltage inputs	Power supply	System Freq	Comm	I/O	Security	Measurements
P	6200		A	0		0				

ION6200	Order Code	Description
Brand	P	Schneider Electric branded
Model	6200	ION6200 Meter Kit: ION6200 Meter base, Options Card and Power Supply.
Form Factor	A0	Integrated display model
	R1	Transducer model with DIN rail mount, Remote Display and 14-ft cable (RJ-11, 6 conductor, 26 gauge).
	R2	Transducer model with DIN rail mount, Remote Display and 6-ft cable (RJ-11, 6 conductor, 26 gauge).
	R3	Transducer model DIN rail mount, Remote Display and 30-ft cable (RJ-11, 6 conductor, 26 gauge).
	T1	Transducer model with DIN rail mount (requires Comms or pulse outputs)
	M0	MegaWatt option on Integrated Display model. Not available with Security options RMICAN or RMICAN-SEAL.
	N1	MegaWatt option on Transducer model with DIN rail mount, Remote Display and 14-ft cable (RJ-11, 6 conductor, 26 gauge). Not available with Security options RMICAN or RMICAN-SEAL.
	N2	MegaWatt option on Transducer model with DIN rail mount, Remote Display and 6-ft cable (RJ-11, 6 conductor, 26 gauge). Not available with Security options RMICAN or RMICAN-SEAL.
	N3	MegaWatt option on Transducer model with DIN rail mount, Remote Display and 30-ft cable (RJ-11, 6 conductor, 26 gauge). Not available with Security options RMICAN or RMICAN-SEAL.
Current Inputs	A	10 Amp current inputs (12 Amp max)
Voltage Inputs	0	Autoranging (57-400 VAC L-N / 99-690 VAC L-L)
Power Supply	B	P620PB: Standard Plug-in Power Supply (100-240 VAC / 50-60 Hz or 110-300 VDC)
	C	P620PC: Low voltage DC Plug-in Power Supply (20-60 VDC)
System Frequency	0	Calibrated for use with 50 Hz or 60 Hz systems
Communications	Z0	No communications
	A0	Single RS-485 port (supports Modbus RTU protocol and ION-compatible PML protocol)
I/O	A	No I/O
	B	Two solid state Form A pulse outputs for kWh, kVAh or kVARh energy pulsing
Security	0	Password protected, no security lock
	2	Password protected with security lock enabled
	3	RMICAN Measurement Canada approved, security lock enabled
	4	RMICAN-SEAL Measurement Canada approved, factory sealed, security lock enabled
Measurement Package	N	Standard Measurements (Volts/Amps per phase and avg)
	P	Enhanced Package #1 (Standard Measurements plus Energy/Power total, Frequency, Power Factor total, Neutral Current
	R	Enhanced Package #2 (all measurements)

** A filled-out [ION6200 RMICAN-SEAL Checklist](#) must accompany each RMICAN-SEAL meter order.

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION6200 Remote Display.

Brand	Model	Display Type	Cable Length
P	620D		

ION6200 Remote Display	Order Code	Description
Brand	P	Schneider Electric branded
Model	620D	Remote Display Unit for the ION6200 Transducer meter base
Display Type	R	Standard display
	N	MegaWatt option — for use with Transducer meter base with MegaWatt option. - NOT AVAILABLE for RMICAN or RMICAN-SEAL meters
Cable Length	0	No cable
	1	14-ft cable for connecting Remote Display Unit to the ION6200 Transducer meter base.

Cable for ION6200 Remote Display	
P620C1	14-ft cable for connecting Remote Display Unit to the ION6200 Transducer meter base.
P620C2	6-ft cable for connecting Remote Display Unit to the ION6200 Transducer meter base.
P620C3	30-ft cable for connecting Remote Display Unit to the ION6200 Transducer meter base.

ION6200 Stocking Orders

The ION6200 is made up of three separate components: the Meter Base, Option Card and Power Supply. Each of these components are required to create one complete ION6200.

The following order scheme is intended for customers who purchase for stocking purposes. For stocking orders, customers have the option of purchasing quantities of the separate components (i.e. meter base, option card & power supply) and then mixing and matching them as required to serve their needs.

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION6200 Meter Base.

Brand	Model	Form Factor	Current inputs	Voltage inputs	System Freq
P	620B			0	0

ION6200 Meter Base	Order Code	Description
Brand	P	Schneider Electric branded
Model	620B	ION6200 meter base
Form Factor	A0	Integrated Display on meter base
	M0	MegaWatt option on meter base with Integrated Display - NOT AVAILABLE for RMICAN or RMICAN-SEAL meters
	T1	Transducer meter base with DIN rail mounts - NOT AVAILABLE for RMICAN or RMICAN-SEAL meters
Current Inputs	A	10 Amp current inputs (12 Amp max)
Voltage Inputs	0	Auto-ranging (57-400 VAC L-N / 99-690 VAC L-L)
System Freq	0	Calibrated for use with 50 Hz or 60 Hz systems

Select one code from each ordering category and fill in the boxes below. Use this group of codes when you order your ION6200 Option Card.

Model	Comm	I/O	Security	Measurements
P620K				

ION6200 Option Card	Order Code	Description
Model	P620K	Option Card to activate basic and advanced features on the ION6200.
Communications	Z0	No communications
	A0	Single RS-485 port (supports Modbus RTU protocol and PML protocol)
Input/Output Option	A	No I/O
	B	Two solid state Form A pulse outputs for kWh, kVARh or kVAh energy pulsing
Security	0	No hardware lock (setup is password protected)
	2	Password protected with security lock enabled
	3	RMICAN Measurement Canada approved, security lock enabled
	4	RMICAN-SEAL Measurement Canada approved, factory sealed, security lock enabled
Measurement Options	N	Standard Measurements (Volts/Amps per phase and avg)
	P	Enhanced Package #1 (Standard Measurements plus Energy/Power total, Frequency, Power Factor total, Neutral Current)
	R	Enhanced Package #2 (all measurements)

ION6200 Power Supply

P620PB	Standard Plug-in Power Supply (100-240 VAC / 50-60 Hz or 110-300 VDC) for the ION6200.
P620PC	Low voltage DC Plug-in Power Supply (20-60 VDC) for the ION6200.

Appendix A: ION8600 Custom Nameplate

If you would like to add custom text to your meter's nameplate label, fill out this form and submit it with your P.O.

Customer: _____

P.O.#: _____

P.O. line#: _____

Quantity: _____

FM 35S

V~ 120

W 3WD

ABC Electric Co.

Mult by

M8G12345678900000

PQ9903A000-00

TEST MODE

75000-0207F

SHIFT UP

SHIFT DOWN

ALT. ENTER

DEMAND RESET

*Meter Tag Number (required):

Bar Code 39:

Bar Code Interpretation Line:

17 characters maximum

17 characters maximum

PQ9903A000-00

Buyer Specified (Positions 13 to 17)

Manufacturer Serial Number (positions 4 to 12)

These fields are set to the Manufacturer's serial number unless specified by the customer.

Manufacturer Data Code (Position 3)

Meter Specification Data Code (Position 1 & 2)

ZY	Form 9S	0.0V	TA2.5	Kt: 0.0	3Φ4W	3EL
M8	Form 35S	0.0V	TA2.5	Kt: 0.0	3Φ3W	2EL
M9	Form 36S	0.0V	TA2.5	Kt: 0.0	3Φ4W	2½EL
2C	Form 39S	0.0V	TA2.5	Kt: 0.0	3Φ4W	3EL
2D	Form 76S	0.0V	TA2.5	Kt: 0.0	3Φ4W	2½EL

*The METER TAG number is a mandatory requirement for this checklist; each meter to be sealed must have a unique tag number.

Notes: