

ION7650 meter Model Features vs ION9000

Meter Features	ION7650	ION9000
Model	ION7550/7650, Wider-range voltage 100-600 V _{LL} and capacity onboard memory up to 10 MB	Unique model (ION9000) to cover both ION7x50 model, Wider-range voltage 100-690 V _{LL} and High capacity onboard memory 2000 MB - Flexible & adaptable due to its Modular Architecture
Form factor	(8) options: Front Optical port, 5 MB and 10 MB Logging memory, and 256/512/1024 samples/cycle resolution	Unique form factor, Front optical port, 2 GB Logging memory, and 1024 samples/cycle resolution.
Current Inputs	(4) options: 1 A nominal, 10 A full scale current input, 5 A nominal, 20 A full scale current input, and (2) options for the Probe Inputs. - Current Probe Inputs and Current Probe Inputs with three Universal Technic	Unique option: - 1 A (0.1S), 5 A (0.1S), 20 A (0.1 ANSI). - No current Probe Inputs and Current Probe Inputs with three Universal Technic
Voltage Inputs	57 to 347 V AC L-N / 100 to 600 V AC L-L	57 to 347 V AC L-N / 100 to 690 V AC L-L
Power Supply	(2) options: Standard power supply (85-240 V AC, $\pm 10\%$ /47-63 Hz / 110-300 V DC, $\pm 10\%$) or Low voltage DC power supply (20-60 V DC)	Unique option for AC 90-480 V AC $\pm 10\%$ (50/60 Hz $\pm 10\%$) 90-120 V AC $\pm 10\%$ (400 Hz) and DC 110-480 V DC $\pm 15\%$. No low voltage DC
System frequency	Calibrated for 50 Hz systems or Calibrated for 60 Hz systems	Specified accuracy frequency - Frequency 42 to 69 Hz (50/60 Hz nominal)
Communication	(8) Options: For all these options except the Fiber-optic Ethernet link make difference (IEC 61010-1). - Modem-to-serial gateway	- 2 Ethernet ports and 2 RS-485 ports. - No Fiber optic port capability. - No Telephone Modem - No Modem-to-serial gateway
Inputs/Outputs	(5) options: - (A) Standard I/O (8 digital ins, 3 Form C relays, 4 Form A solid-state out) - (E) Standard I/O plus Expansion I/O card (8 additional digital inputs	A meter base Only (Standard): 8 digital inputs (30 V AC/60 V DC), 4 Form A (KY) solid state digital output (30 V AC/60 V DC, 75 mA), 2 Form C relays (8 A at 250 V AC, 5 A at 24 V DC).

	& four 0 to 20 mA analogue inputs) - (K) Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 20 mA analogue outputs) - (N) Standard I/O plus Expansion I/O card (8 additional digital inputs & four 0 to 20 mA analogue 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 analogue inputs and four -1 to 1 mA analogue outputs)	Modular options up to 4 Modules: - Digital - 6 digital inputs (30 V AC / 60 V DC) wetted + 2 Form C relay outputs (250 V AC, 8 A) - Analog - 4 analog inputs (4-20 mA, 0-30 V DC) + 2 analog outputs (4-20 mA, 0-10 V DC).
Security	(3) options: - "0": Password protected, no hardware lock - "1": Password protected, hardware lockable (enabled/disabled via jumper on comm card). - "6": Password protected with security lock enabled, terminal cover and UK OFGEM labels	Anti-tamper protection seals and hardware metrology lock. With Cybersecurity like HTTPS security protocol.
Special Other options	(4) Options: Tropicalization treatment (to fit or adapt for use in a tropical climate especially by measures designed to combat the effects of fungi and moisture.)	Is not an option