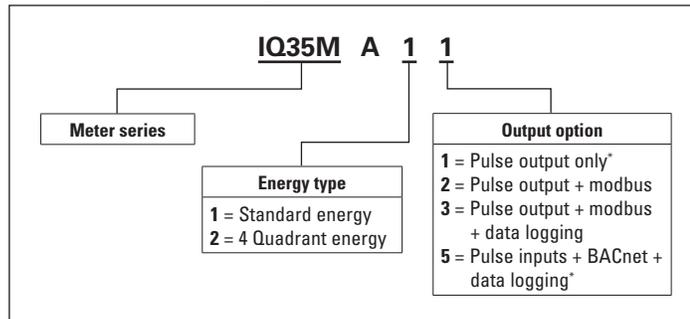# IQ 35M

General Description

The Eaton® IQ 35M Meter is a DIN rail meter that combines exceptional performance and easy installation to deliver a cost-effective solution for energy and power monitoring applications, as well as sub-metering applications. Most models include pulse output, alarm contact and phase alarms for true versatility. The BACnet version offers two digital inputs for accumulating other meter pulses in place of the digital output and alarm contact. The Modbus output options offer added flexibility for configuration and data analysis.

The IQ 35M allows you to:

- Verify energy bills
- Make informed load shifting and shedding decisions
- Fairly and accurately allocate energy costs to users
- Identify wasteful practices
- Decrease unnecessary usage
- Produce an energy profile
- Secure the optimum utility rate structure

Typical Applications

- Commercial submetering
- Energy management
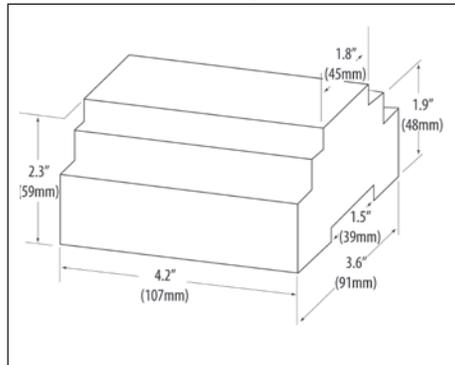- Industrial monitoring
- Cost allocation

Key Features

- Economical and compact watt hour meter with demand
- Backlit LCD display for local reading
- Compatible with the Power Xpert® Gateway for remote monitoring
- Monitors
  - Voltage, current, power factor, frequency
  - Power and Energy: real, reactive and apparent
- Optional data logging capability
- Optional serial communications (Modbus-RTU or BACnet)
- Revenue grade, ANSI C12.20 0.5% accuracy, IEC 62053-22 Class 0.5S
- Compatible with economical solid-core and split-core CTs
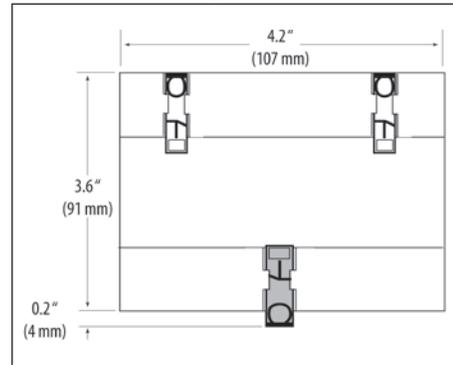- User-enabled password protection
- On-board diagnostics

IQ 35M Meter ordering information


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IQ35M  A  1  1
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Meter series

Energy type
1 = Standard energy
2 = 4 Quadrant energy

Output option
1 = Pulse output only*
2 = Pulse output + modbus
3 = Pulse output + modbus + data logging
5 = Pulse inputs + BACnet + data logging*

* Not available with 4 Quadrant energy.

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Dimensional drawing

DIN mount configuration

Wall mount configuration
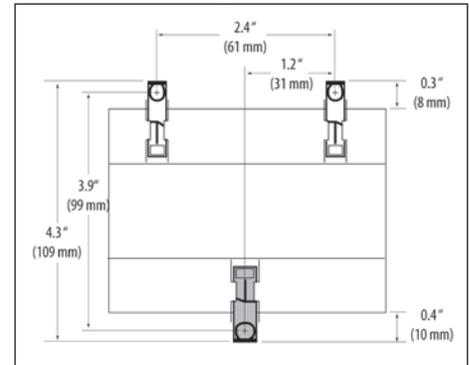
Technical Specifications

Voltage input	UL: 90V (L-N) to 600V (L-L); CE: 90V (L-N) to 300V (L-L)
Current input	Scaling: 5A to 32,767A Input range: 0 to 0.333V or 0 to 1V (selectable)
Control power	UL: 90V (L-N) to 600V (L-L); CE: 90V (L-N) to 300V (L-L)

Accuracy

Real power and energy	0.5% (ANSI C12.20, IEC 62053-22 Class 0.5S)

Outputs

IQ35MAx1 thru 3	Real energy pulse: N.O. static; alarm contacts: N.C. static
IQ35MAx1	Reactive energy pulse 30VAC/DC
IQ35MAx2, IQ35MAx3	RS-485 2-wire modbus RTU
IQ35MA15	RS-485 2-wire BACnet MS/TP

Inputs

IQ35MA15	Two accumulating pulse inputs; solid-state or mechanical contact (current < 1mA) Min pulse width 20 msec

Mechanical

Mounting	DIN Rail or 3-point screw mount

Environmental

Operating temperature range	Meter: -30° to 70°C (-22° to 158°F) Display: -10° to 50° C (14° to 122°F)
Storage temperature range	Meter: -40° to 85°C (-40° to 185°F) Display: -10° to 60°C (14° to 140°F)
Humidity range	<95% RH non-condensing

Data outputs

kW, kWh	Total
Current	3-phase average, per phase
Voltage	3-phase average, per phase line-line and line-netural
Power	Real, reactive, and apparent; 3-phase total and per phase
Power factor	3-phase average and per phase
Power demand	Most recent and peak
Demand configuration	Fixed, rolling block, and external sync
Data logging (IQ35MAx3/IQ35MA15 only)	10 (IQ35MAx3), 6 (IQ35MA15) configurable data buffers Configurable demand subinterval (when set at a 15-minute interval, buffers store data for 60 days)

CTs and Accessories

Model number	Description
CTs	
Solid Core	
IQ35M-SO-030-5	IQ35M CT, Solid Core, 5A:0.33VAC, 0.30 Inch
IQ35M-SO-030-20	IQ35M CT, Solid Core, 20A:0.33VAC, 0.30 Inch
IQ35M-SO-050-50	IQ35M CT, Solid Core, 50A:0.33VAC, 0.50 Inch
IQ35M-SO-075-50	IQ35M CT, Solid Core, 50A:0.33VAC, 0.75 Inch
IQ35M-SO-125-100	IQ35M CT, Solid Core, 100A:0.33VAC, 1.25 Inch
IQ35M-SO-125-200	IQ35M CT, Solid Core, 200A:0.33VAC, 1.25 Inch
IQ35M-SO-125-250	IQ35M CT, Solid Core, 250A:0.33VAC, 1.25 Inch
IQ35M-SO-125-300	IQ35M CT, Solid Core, 300A:0.33VAC, 1.25 Inch
IQ35M-SO-125-400	IQ35M CT, Solid Core, 400A:0.33VAC, 1.25 Inch
Split Core	
IQ35M-SP-075-5	IQ35M CT, Split Core, 5A:0.33VAC, 0.75 Inch
IQ35M-SP-075-30	IQ35M CT, Split Core, 30A:0.33VAC, 0.75 Inch
IQ35M-SP-075-50	IQ35M CT, Split Core, 50A:0.33VAC, 0.75 Inch
IQ35M-SP-075-100	IQ35M CT, Split Core, 100A:0.33VAC, 0.75 Inch
IQ35M-SP-075-200	IQ35M CT, Split Core, 200A:0.33VAC, 0.75 Inch
IQ35M-SP-125-250	IQ35M CT, Split Core, 250A:0.33VAC, 1.25 Inch
IQ35M-SP-125-300	IQ35M CT, Split Core, 300A:0.33VAC, 1.25 Inch
IQ35M-SP-125-400	IQ35M CT, Split Core, 400A:0.33VAC, 1.25 Inch
IQ35M-SP-125-600	IQ35M CT, Split Core, 600A:0.33VAC, 1.25 Inch
IQ35M-SP-253-800	IQ35M CT, Split Core, 800A:0.33VAC, 2.5 Inch
IQ35M-SP-255-1000	IQ35M CT, Split Core, 1000A:0.33VAC, 2.5 Inch
IQ35M-SP-255-1200	IQ35M CT, Split Core, 1200A:0.33VAC, 2.5 Inch
IQ35M-SP-255-1600	IQ35M CT, Split Core, 1600A:0.33VAC, 2.5 Inch
IQ35M-SP-255-2000	IQ35M CT, Split Core, 2000A:0.33VAC, 2.5 Inch
IQ35M-SP-255-2400	IQ35M CT, Split Core, 2400A:0.33VAC, 2.5 Inch
Accessories	
IQ35M-ENC	IQ35M Enclosure, NEMA 4X
IQ35M-FP1	IQ35M Fuse Pack, Single, 1/2A Slow-Blow
IQ35M-FP2	IQ35M Fuse Pack, Double, 1/2A Slow-Blow
IQ35M-FP3	IQ35M Fuse Pack, Triple, 1/2A Slow-Blow
IQ35M-RMC	IQ35M Replacement Mounting Clips
IQ35M-DR	IQ35M DIN Rail
IQ35M-DRSC	IQ35M DIN Rail Stop Clips (10 Pack)

Note: Specifications are subject to change without notice and represent the maximum capabilities of the product with all options installed. This is not a complete feature list. Features and functionality may vary depending on selected options, firmware version and product model. Please refer to User Manual for detailed specifications.

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