

IQ 35M



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**IQ 35M**

**Product 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

**Application Description**

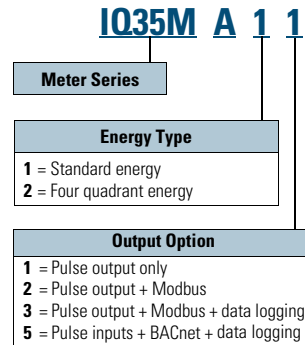
- Commercial submetering
- Energy management
- Industrial monitoring
- Cost allocation

**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

**Catalog Number Selection**

**IQ 35M Meter**



## Product Selection

### IQ 35M Current Transformers

Description	Catalog Number
<b>Solid Core</b>	
IQ35M CT, solid core, 5A:0.33 Vac, 0.30 inch	<b>IQ35M-SO-030-5</b>
IQ35M CT, solid core, 20A:0.33 Vac, 0.30 inch	<b>IQ35M-SO-030-20</b>
IQ35M CT, solid core, 50A:0.33 Vac, 0.50 inch	<b>IQ35M-SO-050-50</b>
IQ35M CT, solid core, 50A:0.33 Vac, 0.75 inch	<b>IQ35M-SO-075-50</b>
IQ35M CT, solid core, 100A:0.33 Vac, 1.25 inch	<b>IQ35M-SO-125-100</b>
IQ35M CT, solid core, 200A:0.33 Vac, 1.25 inch	<b>IQ35M-SO-125-200</b>
IQ35M CT, solid core, 250A:0.33 Vac, 1.25 inch	<b>IQ35M-SO-125-250</b>
IQ35M CT, solid core, 300A:0.33 Vac, 1.25 inch	<b>IQ35M-SO-125-300</b>
IQ35M CT, solid core, 400A:0.33 Vac, 1.25 inch	<b>IQ35M-SO-125-400</b>
<b>Split Core</b>	
IQ35M CT, split core, 5A:0.33 Vac, 0.75 inch	<b>IQ35M-SP-075-5</b>
IQ35M CT, split core, 30A:0.33 Vac, 0.75 inch	<b>IQ35M-SP-075-30</b>
IQ35M CT, split core, 50A:0.33 Vac, 0.75 inch	<b>IQ35M-SP-075-50</b>
IQ35M CT, split core, 100A:0.33 Vac, 0.75 inch	<b>IQ35M-SP-075-100</b>
IQ35M CT, split core, 200A:0.33 Vac, 0.75 inch	<b>IQ35M-SP-075-200</b>
IQ35M CT, split core, 250A:0.33 Vac, 1.25 inch	<b>IQ35M-SP-125-250</b>
IQ35M CT, split core, 300A:0.33 Vac, 1.25 inch	<b>IQ35M-SP-125-300</b>
IQ35M CT, split core, 400A:0.33 Vac, 1.25 inch	<b>IQ35M-SP-125-400</b>
IQ35M CT, split core, 600A:0.33 Vac, 1.25 inch	<b>IQ35M-SP-125-600</b>
IQ35M CT, split core, 800A:0.33 Vac, 2.50 inch	<b>IQ35M-SP-253-800</b>
IQ35M CT, split core, 1000A:0.33 Vac, 2.50 inch	<b>IQ35M-SP-255-1000</b>
IQ35M CT, split core, 1200A:0.33 Vac, 2.50 inch	<b>IQ35M-SP-255-1200</b>
IQ35M CT, split core, 1600A:0.33 Vac, 2.50 inch	<b>IQ35M-SP-255-1600</b>
IQ35M CT, split core, 2000A:0.33 Vac, 2.50 inch	<b>IQ35M-SP-255-2000</b>
IQ35M CT, split core, 2400A:0.33 Vac, 2.50 inch	<b>IQ35M-SP-255-2400</b>

## Accessories

### IQ 35M Accessories

Description	Catalog Number
IQ35M enclosure, NEMA 4X	<b>IQ35M-ENC</b>
IQ35M fuse pack, single, 1/2A slow-blow	<b>IQ35M-FP1</b>
IQ35M fuse pack, double, 1/2A slow-blow	<b>IQ35M-FP2</b>
IQ35M fuse pack, triple, 1/2A slow-blow	<b>IQ35M-FP3</b>
IQ35M replacement mounting clips	<b>IQ35M-RMC</b>
IQ35M DIN rail	<b>IQ35M-DR</b>
IQ35M DIN rail stop clips (10 pack)	<b>IQ35M-DRSC</b>

**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.

## Technical Data and Specifications

- Voltage input
  - UL: 90V (L-N) to 600V (L-L)
  - CE: 90V (L-N) to 300V (L-L)
- Current input
  - Scaling: 5–32,767A
  - Input range: 0–0.333V or 0–1V (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: NO static; alarm contacts: NC static
- IQ35MA11
  - Reactive energy pulse 30 Vac/Vdc
- IQ35MAX2, IQ35MAX3
  - RS-485 two-wire Modbus RTU
- IQ35MA15 RS-485 two-wire BACnet MS/TP

### Inputs

- IQ35MA15
  - Two pulse accumulators

### Mechanical

- Mounting
  - DIN rail or 3-point screwmount

### 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 noncondensing

### Data Outputs

- kW, kWh: Total
- Current: Three-phase average and per phase
- Voltage: Three-phase average, per phase, and line-line and line-neutral
- Power: Real, reactive and apparent; Three-phase total and per phase
- Power factor: Three-phase average and per phase
- Frequency
- Power demand: most recent and peak
- Demand configuration: fixed, rolling block and external sync
- Data logging (IQ35MAX3)
  - 10 configurable data buffers;
  - configurable demand subinterval (when set at a 15-minute interval, buffers store data for 60 days)
- Data logging (IQ35MA15)
  - 6 configurable data buffers;
  - configurable demand subinterval (when set at a 15-minute interval, buffers store data for 60 days)
- Trending requires communication network to retrieve data