

DIGITAL METERING

IQ 200 DIGITAL METER

Provides Complete and Accurate
Electrical Metering Information in
One Economical 96 mm Design



Cutler-Hammer

EATON

IQ 200 DIGITAL METER

Ideal for Panelboard, Switchboard, and Chiller Panel Applications

Cutler-Hammer, a world leader in microprocessor-based metering devices, designed the IQ 200 as the ideal digital meter for panelboard, switchboard, and chiller panel applications...especially where panel space is at a premium.

The IQ 200 Provides Several Significant Advantages Including:

- One style for all line and control voltages provides for easier ordering and significantly reduced inventory.
- Five different mounting options.
- DIN standard 92 mm x 92 mm cutout that meets global standards.
- Autoranging power supply, one style for any voltage up to 600 volts AC.
- No PTs required up to 600 volts AC.
- AC or DC powered.
- Polarity sensing for errors such as improper wiring or forward and reverse power flow.
- Membrane faceplate designed and tested to meet NEMA Types 3R and 12, and IEC ratings IP52 and IP62.
- Nonvolatile storage of all setpoints and recorded peaks and minimums.
- Built-in IMPACC communications capability.

Easy-to-Retrofit

- Flexible mounting for easy retrofit into smaller spaces.
- ANSI 100 mm retrofit collar available for easy replacement of existing analog switchboard meters.
- Remote display for mounting location flexibility.

Energy Management Information

- Direct reading metered values include: watts, watt demand, watthours, VA, VA hours, vars, varhours, and power factor.
- True rms metering of distorted currents and voltages up to the 31st harmonic.
- KYZ pulse output is available for use with a watthour pulse recorder or totalizer.

Easy-to-Use

- Programmed by the operator using the face plate keypad or via communications.
- 4 line x 20 character LED, back lit LCD display.
- All monitored parameters are available at the faceplate.



Unique mounting flexibility is provided by the base module (left) which can be display-mounted, panel-mounted, DIN rail-mounted or side-mounted. The display (right) fits into a standard 1/4 DIN cut-out, and for retrofit applications, a 100 mm ANSI collar is available.

A Single IQ 200 Monitors:

- Phase currents.
- Voltage, L-L, L-N.
- System and per-phase power including watts, vars, and VA.
- System energy including watthours, varhours, and VA hours.
- System demand including watt demand, VA demand, and var demand.
- Apparent and displacement power factor.
- Frequency.
- Recorded minimum and maximums of most parameters.

...and Replaces

- Individually wired and mounted ammeters, voltmeters, ammeter and voltmeter switches, wattmeters, varmeters, power factor meters, frequency meters, watthour and demand meters.

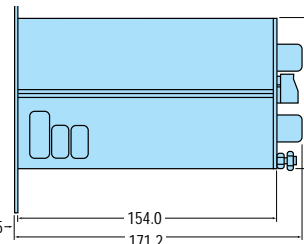
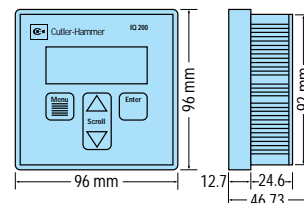
Metered Values (Based on Full Scale)	Accuracy
AC Ampere Phase A, B and C	±0.5%
AC Voltage, L-L, L-N	±0.5%
Watts, Vars, VA	±1.0%
Watthours, Varhours, VA Hours	±1.0%
Power Factor	±2.0%
Frequency (Hz)	±0.1%

Meets Major World Electrical Standards

- UL and CSA listed under UL 3111 and CSA C22.2 #1010.1.
- Meets IEC 1010-1.
- CE mark for applications where European compliance is required.

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Dimensions – mm



IQ 200 Catalog Numbers

- IQ220TRAN - IQ 200 Base Module.
- IQ200D - IQ 200 Display Module.
- IQ220 - IQ 200 Base Module and Display Module with 305 mm cable.

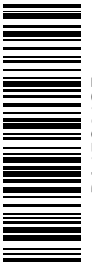
Specifications

- Current input (each channel):
 - Current range of 2 times.
 - Nominal full scale current 5 amperes AC.
- Voltage input (each channel):
 - Voltage range 90-600/347 V AC.
 - Nominal full scale voltage range 120-600/347 V AC.
- CT primary settings (select from 256 values ranging from 5 to 8000 amperes):
 - PT primary 256 values with ratios up to 200 kV.
- Environmental conditions:
 - Operating temperature Base -20°C to 50°C/Display 0°C to 50°C.
 - Storage temperature Base -30°C to 85°C/Display -20°C to 60°C.
- Frequency range of 50/60 Hz.
- Control power input:

V AC	V DC
– Input range 90-600	48-250
– Frequency range 45-66 Hz	–
– Burden 180 mA	7w
- INCOM compatible communications.
- KYZ solid state relay input/output of 96 mA at 240 V AC/300 V DC.

More Information

To receive technical support for the IQ 200 and other Power Management Products, call 1-800-809-2772 or 1-412-490-6714. For sales information about this and all other Cutler-Hammer products and services, call 1-800-525-2000 or 1-732-417-5660. Also visit our website at www.cutlerhammer.eaton.com



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