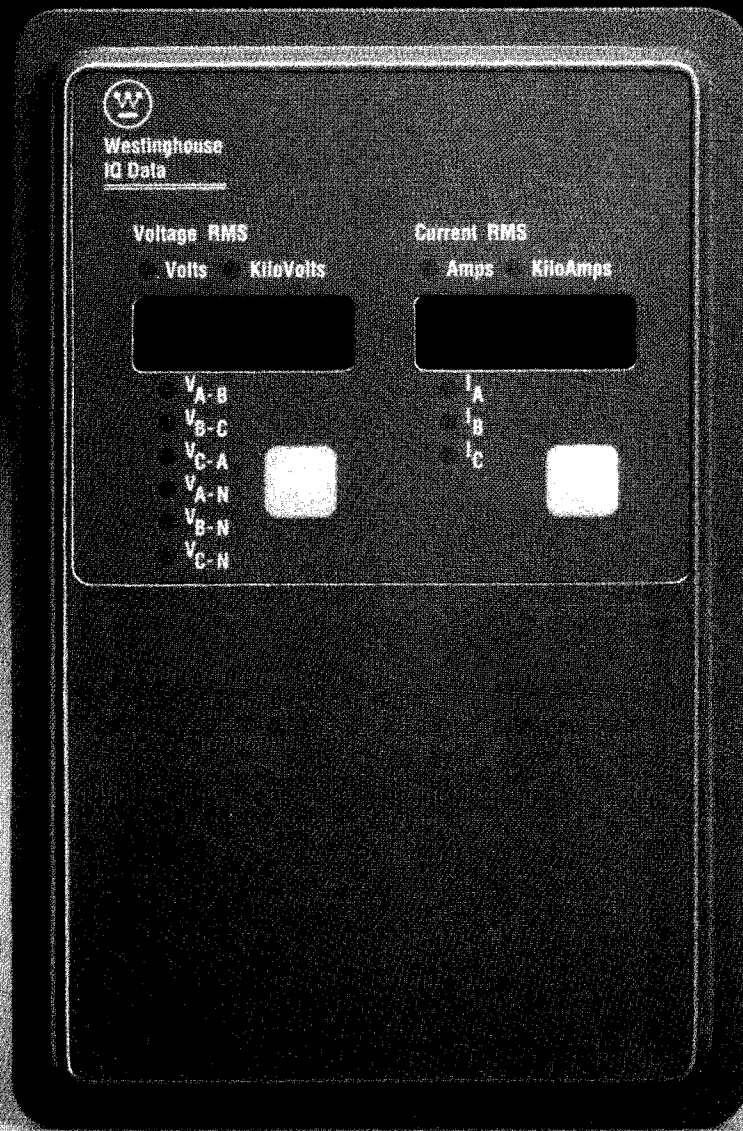




IQ Data





IQ Data™ – Digital Metering Device

The IQ Data is a microprocessor based monitoring device that provides simultaneous current and voltage metering. In one compact, standard package, the IQ Data provides an alternative to individually mounted and wired ammeters, voltmeters, and ammeter and voltmeter switches.

Direct Reading Metered Values

- AC Ampere Phase A 1% Accuracy
 Phase B
 Phase C
- AC Voltage 1% Accuracy
Phase A-B Phase A-Neutral
Phase B-C Phase B-Neutral
Phase C-A Phase C-Neutral

Input Ranges –

- Current Transformers – 25/5 through 5000/5
- Potential Transformers – Self contained up to 600 volts. Above 600 volts, potential transformer inputs to 14.4KV.
- CT & PT ratios field settable with DIP switches – refer to "Rear View"

Additional Features

- Simple electrical connections
- 50/60 Cycle
- 3-Wire or 4-Wire Systems
- Door mounted (2.5 inches depth)
- Two, four-digit display windows for simultaneous viewing of current and voltage
- Separate step buttons for voltage and current
- Auto-ranging units – automatically selects volts/kilovolts, amps/kiloamps
- Optional communication port for two wire connection to Westinghouse INCOM network

Customer Benefits

- Space savings in structure – Replaces Ammeter, Voltmeter and Selector Switches
- Standardization of design – One door mounted device
- Direct voltage input up to 600 volts for all styles – No additional PT's required

- User friendly – Field settable DIP switches
- Order simplification – 2 style numbers – Do not need to stock different faceplates for different CT and PT ratios.
- Standard model (style 2D78533G01) derives power from separate source 120/240 VAC supply
- IQ Data available with a 3-phase voltage power module (style 2D78533G03) for powering unit from line when separate source not available
- Interface capability to computer network for data collection, storage and/or print-out via INCOM – The Westinghouse two-wire local area network
- Membrane faceplate, designed and tested to perform in a harsh industrial environment (NEMA 3R, 12)
- Retains preset parameter through power failure with use of field settable DIP switches (no batteries).
- UL recognized
- CSA certified
- ANSI 37.90

General Specifications

Style Numbers

2D78533G01	With single-phase power supply
2D78533G03	With removable three-phase power module

Device's Power Requirement

3 Phase PT Burden	0.02 VA
With 3-phase voltage power module	10 VA
CT Burden	1.25 VA

Frequency	50/60 Hz
-----------	----------

Line Characteristics

- Nominal Line $\pm 20\%$
- Will continue to operate in event of a phase loss

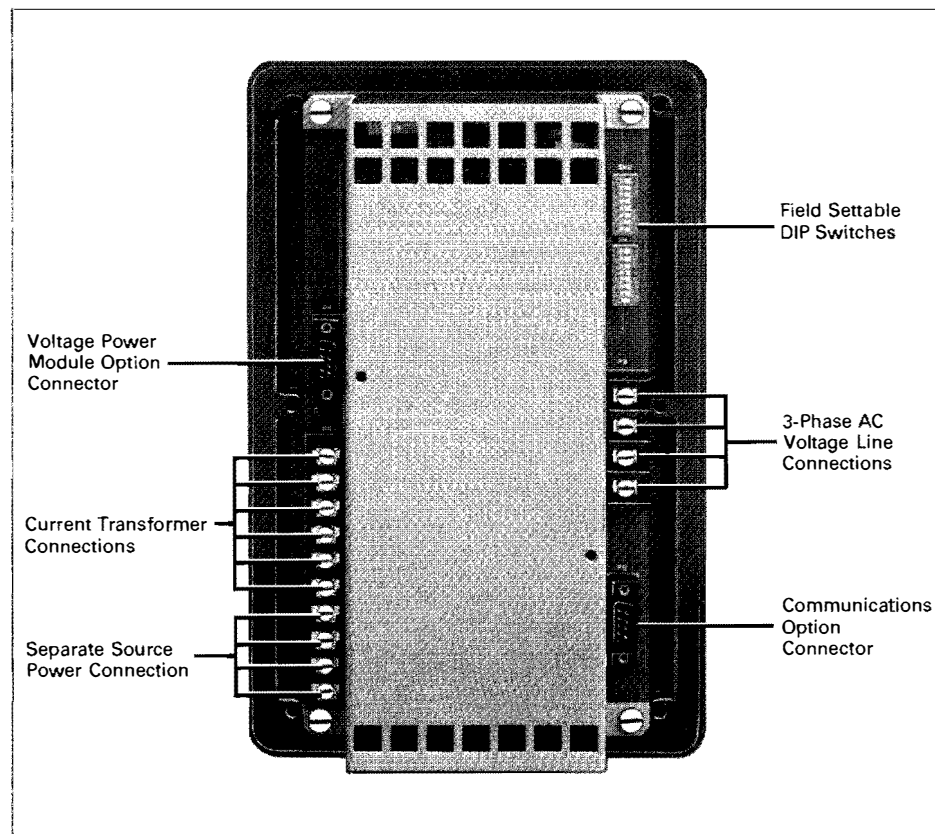
Operating Temperature	0° to 70°C (32° to 158°F)
-----------------------	------------------------------

Storage Temperature	-20° to 85°C (-4° to 185°F)
---------------------	--------------------------------

Humidity	0 to 95% R.H. noncondensing
----------	--------------------------------

Weight	3.5 lbs.
--------	----------

Rear View (Style 2D78533G01)





Three-Phase Power Module

The IQ Data is available packaged with a detachable 3-phase voltage power module (style 2D78533G03). An IQ Data equipped with a 3-phase power module is necessary for the following conditions:

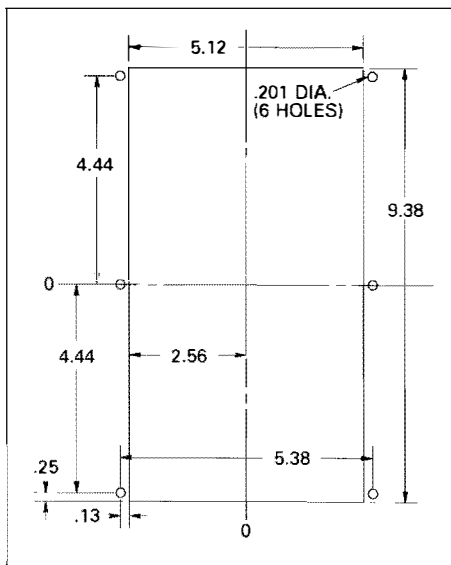
- A 120/240 VAC separate source power supply is not available.
- The customer cannot have 480- or 600-VAC mounted on the door. A 36-inch extension cable (style 7871A40G02) can be ordered along with the three phase voltage power for removing the module from the door-mounted IQ Data.

The 3-phase voltage power module will allow the unit to be powered from the line it is monitoring. When the module is connected to the IQ Data, the unit no longer needs to be powered from a separate source.

The module will not be sold separately.

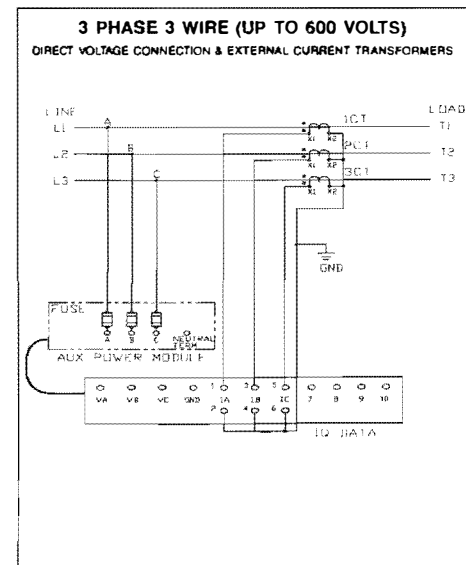
For additional pricing, see Price List 8174.
For additional metering, see IQ DataPlus II (Descriptive Bulletin 8170), IQ Generator (Descriptive Bulletin 8172).

Drilling Pattern

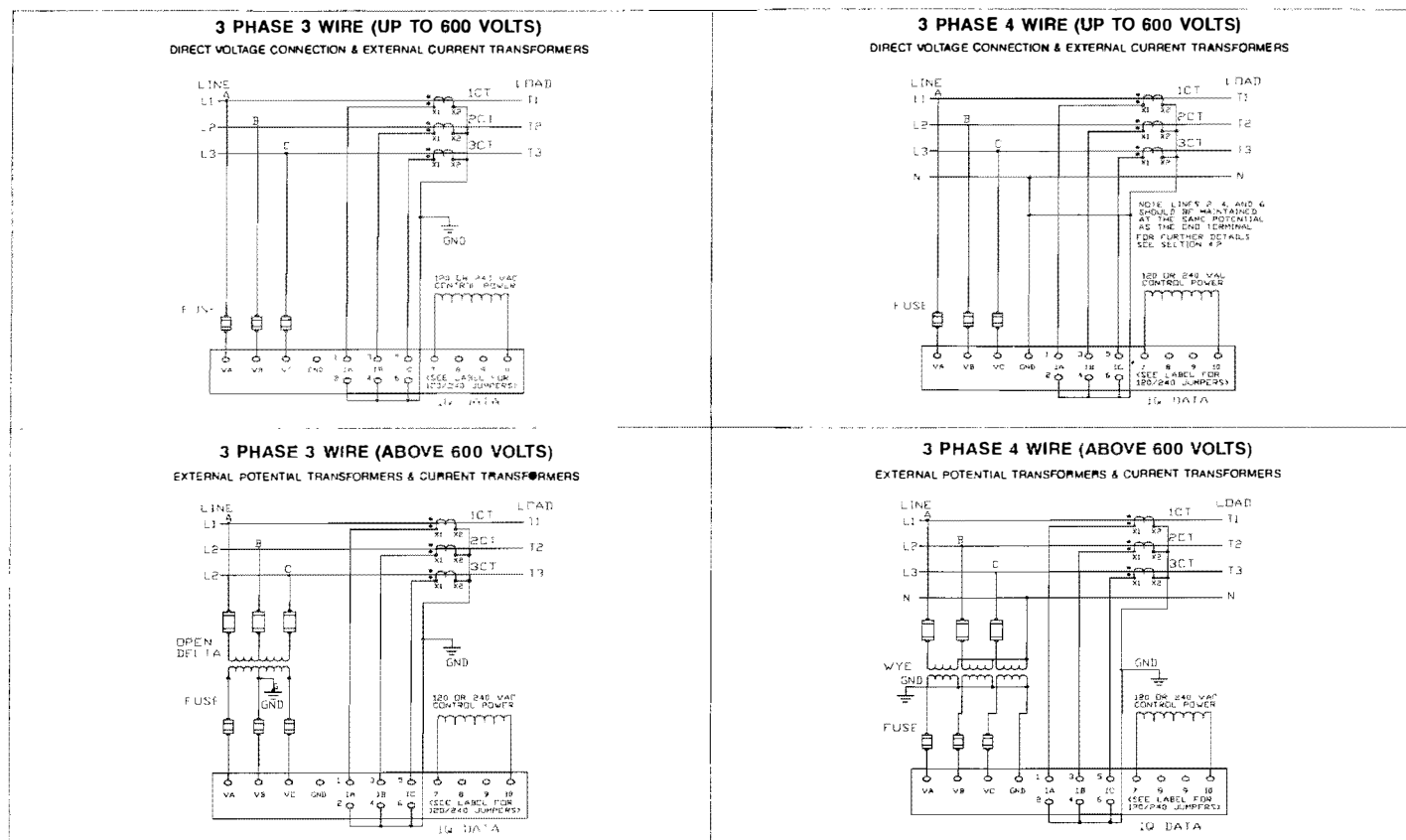


Field Wiring

(Example of 3-Phase Power Module Application)

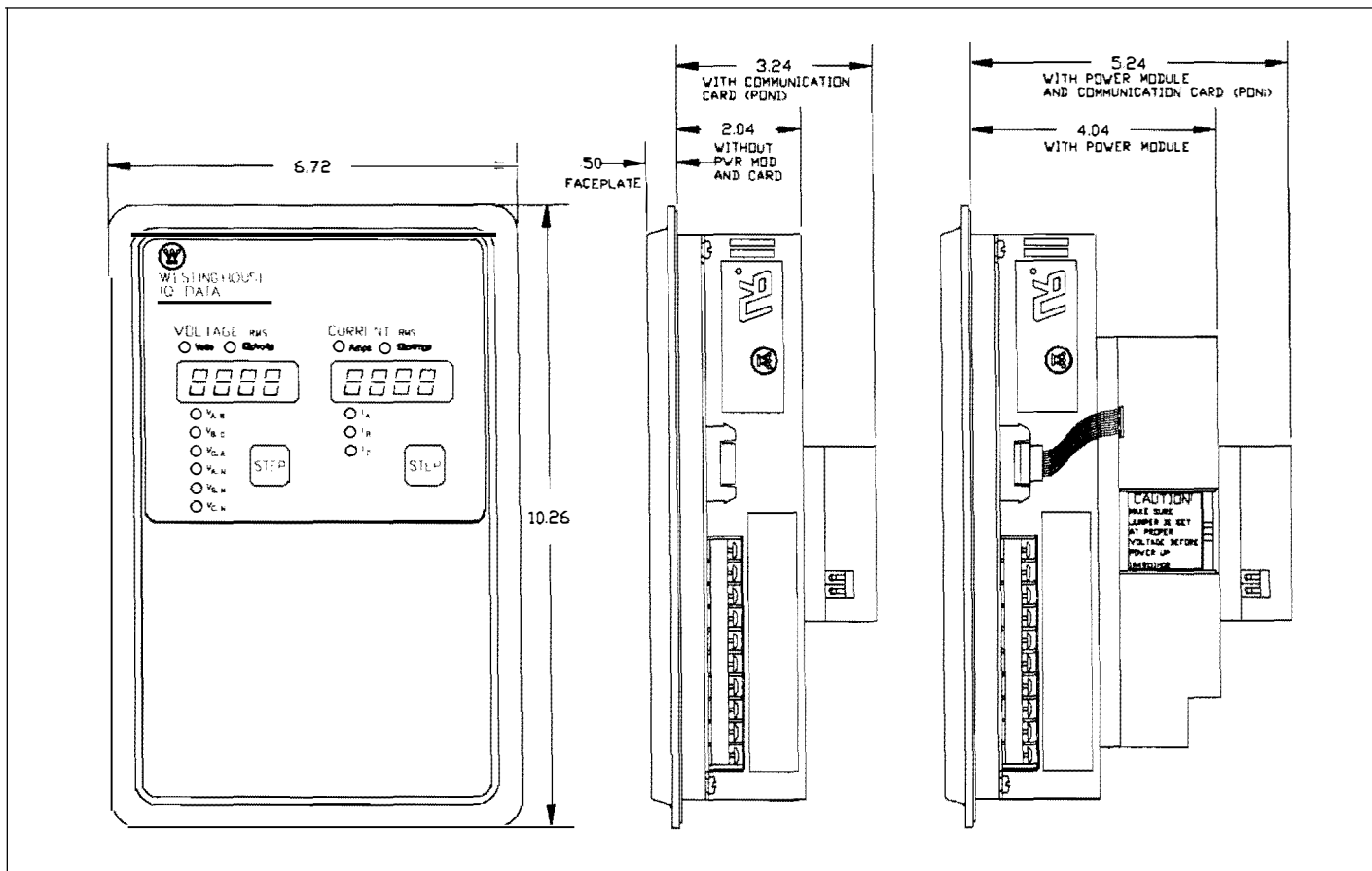


Field Wiring Connections (Stand Alone Application – Style 2D78533G01)





Dimensions (In inches)



The Westinghouse IQ family: IQ-1000, IQ Data Plus II, IQ Data, IQ Generator, Assemblies Electronic Monitor, and Device Panel

Westinghouse Electric Corporation
Distribution and Control Business Unit
Electrical Components Division
Pittsburgh, Pennsylvania, U.S.A. 15220