

**Measurement:** Harmonics/Demand/Max, K-factor, Volts/Demand/Min/Max, Amps/Demand/Max, Power/Demand/Min/Max (real, reactive, apparent), Power Factor (displacement, true), Energy, and Frequency. Includes many per-phase & total parameters, for over 280 measurements.

**Local Indication:** Display as many as 100 electric parameters in 40 screens with up to three display values per screen. All three values of 3-Phase parameters are simultaneously displayed. Includes automatic display of engineering units in separate display.

**Serial Port:** Five network-connection options. All parameters available in network-accessible registers.

**Display Modes:** Fixed, Scroll, and Fast Forward. Enable/Disable displayable screens via push-button with all network register parameters always available.

**Current Inputs:** Full transformer isolation. (See Selection Table). Scaling is field selectable from built-in CT ratio library to display primary-side values when connected to CTs. Custom ratios can be written over the network.

**Voltage Inputs:** Full transformer isolation. Direct-connect up to 480 V ac (See Selection Table).

**Certification:** Designed to meet IEC1010 standards.

**Auxiliary Power Supply:** Four power supply options, including a universal power supply option which operates from either an AC or DC power source.

**Mechanical:** Three 4-digit, long life, red LED displays, 0.56" high. One 8-character red LED alphanumeric display. 4" round x 6.8" deep case. 4.5" Sq. faceplate.

Quantity and Type of Inputs Selection Table		
Electric System	3-Wire	4-Wire
Elements	2	3
Modbus or DNP	MTWDEC2B	MTWDEC1B
Modbus Plus	MTWDEC5B	MTWDEC4B
Current Inputs	2 or 3	3
Voltage Inputs	2 (L-L)	3 (L-N)
Voltage Input-Option Code		
240/208/120Y System	K	See Note 1
480/277Y System	N	L

Note 1: Use Model MTWDE1B or MTWDE4B for 120V AC.

Note 2: Specify CT ratio if want preset at factory otherwise default (5:5) will be provided.

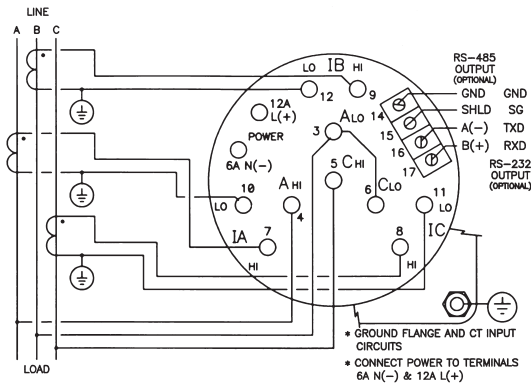
## ORDER GUIDE 127

## Bitronics® MultiComm™ Family Digital Power Meter, 3-Phase

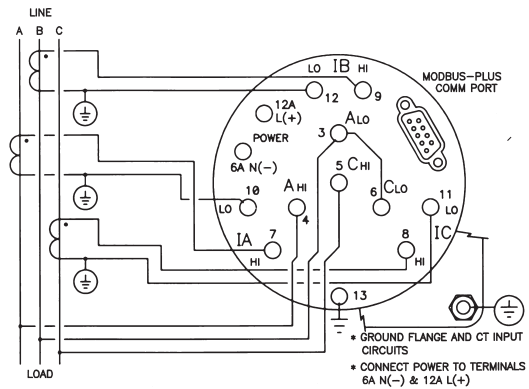
RTH C with DNP3, Modbus, or Modbus Plus  
Direct Connect for Low Voltage Systems  
Harmonics and Demand Measurements

Order Number = Base Model + 6 Option Codes			
Select Base Model for DNP3 or Modbus			
AC Connection	Base Model		
3-Wire, 2-Element	MTWDEC2B		
4-Wire, 3-Element	MTWDEC1B		
Select Base Model for Modbus Plus			
AC Connection	Base Model		
3-Wire, 2-Element	MTWDEC5B		
4-Wire, 3-Element	MTWDEC4B		
Select New Option Codes			
Optional Functions	Price Adder	Old Option Code	New Option Code
Auxiliary Power			
115 V ac	NO	-X	0
230 V ac	NO	-VA4	1
480 V ac	NO	-VA8	4
24-250 V dc/115 V ac	YES	-VD4A	2
Network Connections			
Modbus RTU w/RS-232	NO	-S093	9
Modbus RTU w/RS-485	NO	-S103	A
DNP3 w/RS-232	NO	-S113	B
DNP3 w/RS-485	NO	-S123	C
Modbus Plus	NO	-X	0
Current & Voltage Inputs			
5 A ac and 208-240 V ac (3-Wire)	NO	-X -V12	K
5 A ac and 277 V ac (4-Wire)	NO	-X -V13	L
5 A ac and 480 V ac (3-Wire)	NO	-X -V14	N
Display			
Standard LED	NO	N/A	0
Aluminum Faceplate			
Clear 3-Wire	NO	-X	1P
Black 3-Wire	YES	-B1	HP
Clear 4-Wire	NO	-X	1N
Black 4-Wire	YES	-B1	HN
Frequency			
60 Hz	NO	-X	0
50 Hz	NO	-F5	1

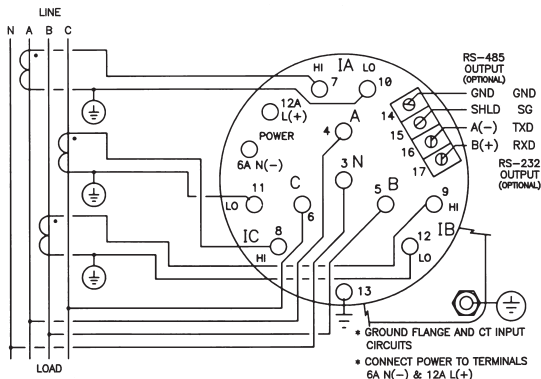
Build order number by choosing base model number and then one new option code selection for each option type. An example: MTWDEC1B2AN01P0.



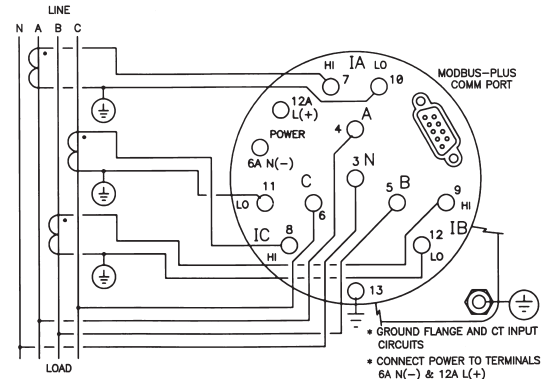
Typical connection diagram for 2-Element  
 MTWDEC2B-K with Integral 2:1 PT (208/240 V L-L) or  
 MTWDEC2B-N with Integral 4:1 PT (480 V L-L)



Typical connection diagram for 2-Element  
 MTWDEC5B-K with Integral 2:1 PT (208/240 V L-L) or  
 MTWDEC5B-N with Integral 4:1 PT (480 V L-L)

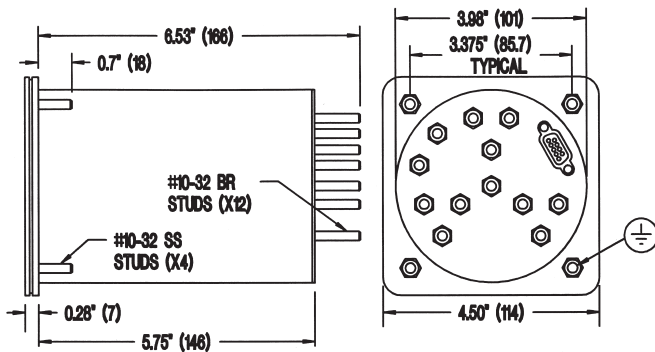


Typical connection diagram for 3-Element  
 MTWDEC1B-L with Integral 2.5:1 PT (277 V L-N)



Typical connection diagram for 3-Element  
 MTWDEC4B-L with Integral 2.5:1 PT (277 V L-N)

Overall dimensions with RS-232/485 Port shown.  
 Same dimensions for Modbus Plus Port.



**Contact:**