



- 11 single phase powerline parameters
- Extended voltage range : 5 to 265 V AC (2 to 100% of rated value)
- 4 x 4~20 mA outputs for any parameter or combination of parameters
- 2 pulse outputs for energy
- RS485 / MODBUS RTU
- Input / supply / outputs / pulse outputs mutually isolated
- User programmable Primary & Secondary for CT and PT
- Powerful, flexible SCADA (Eclipse) software available

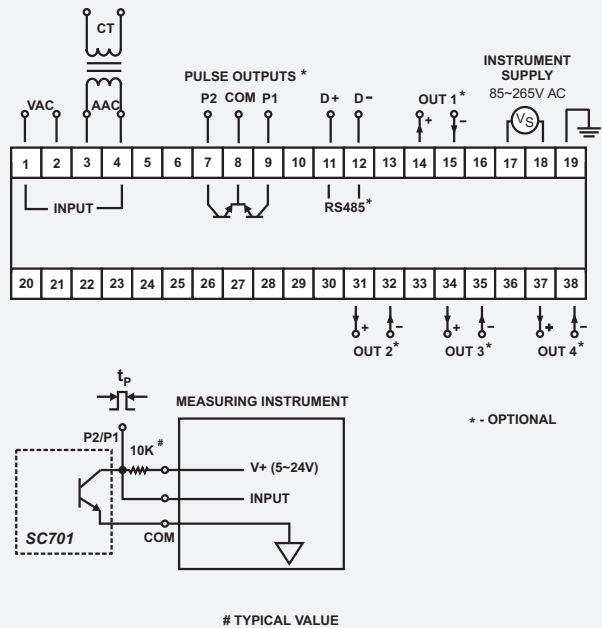
TABLE 1

MEASUREMENT	RANGE*	ACCURACY (% SPAN)
Voltage	5 ~ 265 V AC	1.0
Current	0 ~ 5 A AC	1.0
Frequency	45 ~ 65 Hz	0.1
Active Power	0 ~ 1325 W	1.0
Reactive Power	0 VAR	2.0
Apparent Power	0 ~ 1325 VA	1.0
Active Energy	-	1.0
Reactive Energy	-	2.0
Apparent Energy	-	1.0
Phase Angle	0 ~ 360°	2°
Power Factor	-1 ~ +1	1.0

* Values used for measurement will depend on programmed parameters such as Volts primary, Volts secondary etc.

Values in Table 1 are at Voltage = 265V, Current = 5A and Power Factor = +1

CONNECTION DIAGRAM



ELIPSE SCADA FOR DATALOGGING

SPECIFICATIONS All specifications at ambient of 25 C, unless specified otherwise

INPUTS

Voltage 5~265 V AC
Current 1 AAC or 5 AAC
Input type Single phase

PARAMETERS

Available parameters See Table 1
Range See Table 1
Accuracy See Table 1

CALIBRATION

Zero and Span through front panel keys for each input and output (No trimpots used)

OUTPUTS

No. of pulse outputs 2 open collector outputs
Pulse assignment Active Energy / Reactive Energy / Apparent Energy (Each pulse o/p can be assigned to any of the above)

Max collector current Should not exceed 10 mA
Max supply to load Should not exceed 80 V
No. of analog outputs 4 (current or voltage)
Current output 4~20 mA / 0~20 mA / 20~4 mA / 20~0 mA isolated from input
Voltage output 0-10 V / user specified
Analog output assignment Voltage / Current / Active Power / Reactive Power / Apparent Power / Power Factor / Phase Angle / Frequency (each analog output can be assigned to any of the above)

Maximum Load for current output 500 Ohms
Load for voltage output > 10 kohms

ISOLATION

Between input, supply and any output and other outputs 2 KV AC RMS, 50 Hz/1 minute

MEMORY

Non volatile, indefinite retention, for Active, Reactive & Apparent Energies

COMMUNICATION

Port RS485, isolated
Baud rate 4800/9600/19200/38400 bps
Protocol MODBUS RTU
Slave ID User programmable, 1~255
Minimum polling interval 250 milliseconds
Measured parameters See Table 1
Data types Float, swapped float, integer, integer x10
Parity Odd, even, none
Stop bits 1, 2

PROGRAMMABLE PARAMETERS

Volts primary 0.001 ~ 999.9 KV
Volts secondary 50 ~ 265 V AC
Amps primary 1 ~ 9999 A
Amps secondary 1, 5 A
Pulse divisor 1,10,100,1000
Pulse duration (tp) 60, 100, 200 (in mS)
 See connection diagram

OTHER

Programming With 3 keys and built-in display
Keypad Tactile, 3 keys
Display 2x16 character LCD with backlight
Display scrolling Auto/Manual
Resolution Autoranging
Instrument supply voltage a) 85~265 V AC, 50/60 Hz
 b) 20~30 V DC

TEMPERATURE, HUMIDITY

Ambient, storage -22~+85°C
Ambient, operation 0~50°C
Relative humidity 0~95%

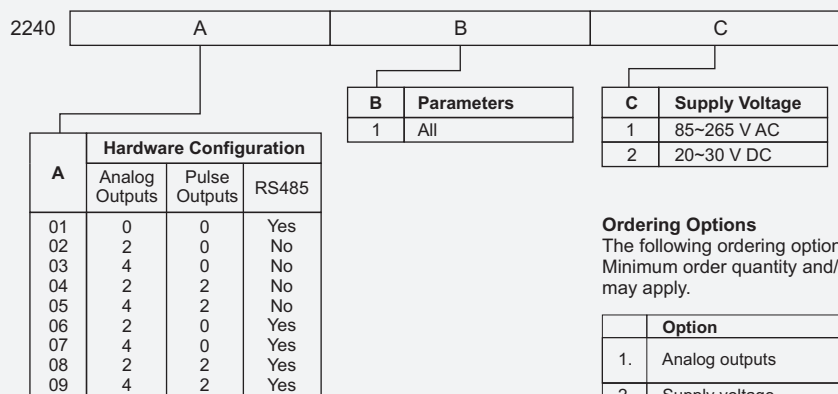
ENCLOSURE

Material ABS plastic
Dimensions (in mm) 100(W) x 75(H) x 110(D)
Protection IP20

VIEW MODE

Screen 1 Voltage, Current
Screen 2 Frequency
Screen 3 Active Power, Reactive Power
Screen 4 Active Energy, Reactive Energy
Screen 5 Apparent Power, Apparent Energy
Screen 6 Phase Angle, Power Factor

ORDERING INFORMATION



Ordering Options
 The following ordering options are available on request. Minimum order quantity and/or minimum order value may apply.

Option	Details
1. Analog outputs	0~20 mA 0~10 V DC
2. Supply voltage	48 V DC
3. RS485 / MODBUS RTU	-

Product url : www.radix.co.in/new.htm



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