PRODUCT

GROUP DD

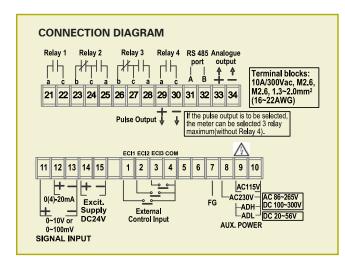
DIN 96x48mm DC AMPERE HOUR METER WITH RELAY **OUTPUTS, ANALOGUE OUTPUT, RS485**

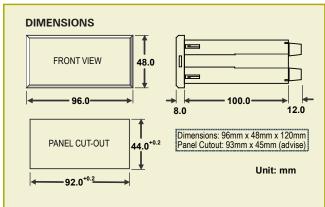
TYPE: CS2-TM

- Features
- Separate totalising display
- Separate batch count display
- 3 volt free control inputs
- Up to 4 relay outputs
- **CE** marked
- Ideal product for electroplating applications

DESCRIPTION

A Din 96x48mm DC Ampere Hour meter, taking a current reference from a DC shunt and integrating this reference against time to achieve an Ampere Hour or Ampere Minute reading. There are two display screens, the main ten digit screen is the totaliser display, the other screen is a "Batch" programmable setting. The meter can be specified with up to four relay outputs (2C/O and 2N/O) which can be assigned at the time of ordering for many functions to control say an electroplating system. As an option RS485 MODBUS is also available. Three volt free control inputs are featured as standard for functions such as Please discuss your exact requirements with our technical sales department.







SPECIFICATIONS

GENERAL

Accuracy: $\leq \pm 0.4\%$ of FS

DC current input: Via a 50mV, 60mV or 100mV shunt

Sampling rate: 15 cycles/Sec Response time: ≤100mSec Display: 7.1mm high LED's Top row 10 red digits Bottom row 6 red digits

Status LED's: 4 square LED's to indicate outputs

Over-range indication: "ovFL" displayed when input is over 120% of input range

Under-range indication: "-ovFL" displayed when input is under -20% of input range

Power consumption: 5VA / 5W 0-60⁰C Operating temperature: Operating relative humidity: 20-95% RH ≤50 PPM/ C Temperature coefficient:

 $-10^{0} \text{ C to } +70^{0} \text{C}$ Storage temperature:

AC 2.0KV for 1 min between input, Dielectric strength:

output/s, power & case

IP54 Protection:

OPTIONAL RELAY OUTPUT

Latching: Optional please specify

Number of setpoints: Up to 4

Energisation functions: Start delay / Energisation

& de-energisation delay / Energisation latching/Hysteresis

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Time delay programmable: 0-9 mins 59.9 secs

Relays 1 & 4: 2xN0 1A/230VAC, Relay contacts:

3A/115VAC

Relays 2 & 3: 2xCO 1A/230VAC,

3A/115VAC

OPTIONAL RS485 COMMUNICATIONS:

Protocol: **MODBUS RTU**

1200/2400/4800/9600/19200/ Baud rate programmable:

38400

Data bits: 7 or 8 bit programmable

Parity programmable: Even, odd or none (with 1 or 2 stop bit)

Address programmable: 1-255 programmable Distance: 1200 Metres 150 Ohm at last unit Terminal resistor:



ORDERING INFORMATION (The meter will be scaled and set exactly to your requirements)

	INPUT	RELAY OUTPUT	ANALOGUE OUTPUT	RS485	AUX. POWER
CS2-TM	xxx/50mV	None	0-5VDC 0-10mA	None	115 / 230VAC
	xxx/60mV	2 Relays*	1-5VDC 0-20mA	Yes	20-90V ACDC
	xxx/100mV	3 Relays*	0-10VDC 4–20mA		85-264V ACDC
		4 Relays*	2-10VDC Specify		

Regarding the relays, specify your exact requirements of relay configuration at the time of ordering, along with any extra functions such as latching or time delays.