

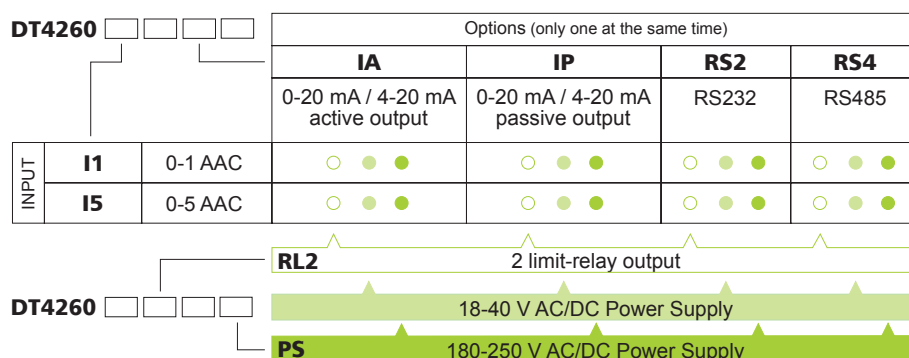
AC Current Meter

Product features

- 0-1 AAC / 0-5 AAC inputs
- 5 digit LED display
- 14.2 mm character height
- 0.03% accuracy
- 0-20 mA / 4-20mA galvanic isolated output
- Min / max values detection
- 2 limit-relay outputs
- RS232 / RS485 communication, MODBUS RTU protocol
- 24 V AC/DC, 230 V AC/DC power supply
- 96 x 48 mm panel instrument
- Protection IP 65 (front), IP 30 (rear)



Type designation



The **DT4260 ... AC Current Meter** enable 0-1 AAC / 0-5 AAC current ranges to be displayed on the control panel. Large 5 digit, 14.2 mm height LED display make process value easily visible at a distance.

The displayed value is proportional to the True RMS value of the input current. The input current should be connected to the instrument's shunt input through a current transformer.

The instrument is available with the following output options:

- 2 normally open relay contacts (SPST) for limit switching or for simple control tasks
- 0-20 mA / 4-20 mA galvanic isolated scalable current output *
- RS232 / RS485 galvanic isolated communication output with MODBUS RTU slave protocol *

(* either analogue or communication option can be implemented at the same time)

Easy on-site configuration through the front panel membrane keypad is a major advantage of the microcontroller-based technology. The configuration parameters: input range, current transformer ratio, signal filtering, output scaling, display refresh rate, limit modes, limit values, etc. are stored in EEPROM. The settings are protected by a two-level password against unauthorised manipulation.

The instruments has two power supply versions: 18-40 V AC/DC (DT4260 ...) or 180-250 V AC/DC (DT4260 ... PS). The DT4260 ... is housed in a DIN standard 96 x 48 mm ABS case with IP 65 protection from the front and IP 30 protection from the back side, for installation on the control panel.

Safety data:

The connection terminals of the supply voltages are isolated from each other, the isolation is in compliance with the standard EN 61010-1, taking into consideration the following:

Pollution level:	2
Measurement category:	II

Input parameters:

Input signal:	AC current, non isolated
Input resistance:	0.01 ohm
Rectification:	True RMS
Measurement range:	0-1 AAC / 0-5 AAC current
Overrange:	2 x I (continuous)
Sampling:	12 measurement / sec
Number of averaged samples:	1 / 2 / 4 / 8 / 16 / 32 (selectable)
Error of displayed value:	< 0.2% @ Ta = 23 °C ±2 °C

Output parameters:

Analogue output (optional):

Output type:	1 active or passive DC current (scalable)
Range:	0-20 mA / 4-20 mA
Burden:	600 ohm (max.)
Error:	< 0.03% @ Ta = 23 °C ±2 °C

Limit outputs (optional):

Outputs:	2 NO SPST relays
Contact rating:	30 VDC, 3 ADC / 240 VAC, 3 AAC

Communication interface (optional):

Type:	RS232 or RS485 (isolated)
Protocol:	MODBUS RTU slave
Baud rate:	300 / 600 / 1200 / 2400 / 4800 / 9600 Baud

Display:

Display:	5 digit, decimal point
Display unit:	5 digit LED, 14.2 mm character height
Displayed value:	current multiplied by current transformer ratio

Manual controls:

Manual controls:	3 membrane push-buttons on the front cover
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Power supply:

Supply voltage:	18-40 V AC/DC (DT4260 ...) 180-250 V AC/DC (DT4260 ... PS)
Consumption:	3.5 W / 3 VA

Ambient conditions:

Operating temperature range:	0-60 °C (-20 - +60 °C for customer request)
Relative humidity:	90% (max., non condensing)
Place of installation:	cabinet

Electromagnetic compatibility (EMC)

accordance with the standard EN 61326:2000:

Immunity:	-B- criterion
Noise emission:	-A- class

General data:

Housing:	panel instrument
Connection / Connection cable:	plug-in screw terminal / push-in direct connection / 0.25-1.5 mm ²
Dimensions / weight:	96 x 48 x 45 mm (width x height x depth) / 0.15 kg
Protection:	IP 65 (front), IP 30 (rear)

Detailed information see in operating instructions. The Manufacturer maintains the right to change the technical data!