

DC CURRENT SUMMATION



TECHNICAL SPECIFICATIONS

INPUT

Rated value I_n	$\pm 0-1mA...20mA$
Voltage drop	20mV
Working range	$\pm 125\%$
Overload continuous	4 x I_n
Overload continuous	1.5 x U_n

OUTPUT

Rated value mA	0-1/5/10/20 & 4-20mA
Load resistance	12/2.4/1.2/0.6 kOhm
Rated value volts	0-5 / 10 & 1-5 V

ADJUSTMENT

Zero	$\pm 2\%$
Span	$\pm 10\%$

AUXILIARY

A.C. Voltage	115 / 230 / 400 V ($\pm 25\%$ / 45-65 Hz / < 2VA)
D.C. Voltage	24 / 48 / 110 V ($\pm 20\%$ / galvanically isolated / < 3W)

WEIGHT & CASE SIZE Approx. 0.4 kg, 55mm case

SELECTION GUIDE

M100-DS1	DC current 1 input
M100-DS2	DC current 2 inputs
M100-DS3	DC current 3 inputs
M100-DS4	DC current 4 inputs

TYPICAL APPLICATIONS

The M100-DS series of summation transducer take up to four inputs and provide an output signal directly proportional to the sum of the inputs.

A typical application is the summation of total kW of four separate generating sets e.g. the four individual kW readings are provided by M100-WA4 transducers with 0-1mA output signals. The M100-DS4 summates the four 0-1mA signals and provides a single output signal that is directly proportional the sum of the total kW of all four generators.

It is important to note the following when using summation transducers, to ensure the correct reading is obtained :-

The current and voltage ratios must be identical otherwise the subsequent summation will be meaningless.

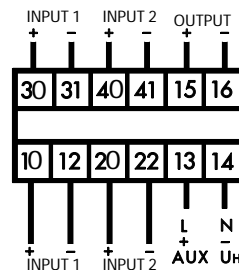
ORDERING INFORMATION

Product Code	Input	In	Output	Aux.	Freq.	Options
M100-DS1	1mA		4-20mA	230V	50Hz	

OPTIONS

1. Non standard inputs / outputs only as far as technically acceptable.
2. A.C. Auxiliary in range 57.7 to 450 volts
3. Calibration at temperature other than 23°C

CONNECTION DIAGRAMS



M100-DS2 / DS3 / DS4