DC CURRENT SUMMATION

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.

TECHNICAL SPECIFICATIONS

INPUT	
Rated value In	*± 0-1mA...20mA*
Voltage drop	*20mV*
Working range	*±125%*
Overload continuous	*4 x In*
Overload continuous	*1.5 x Un*
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	*± 2%*
Span	*± 10%*
AUXILIARY	
A.C. Voltage	*115 / 230 / 400 V (± 25% / 45-65 Hz / < 2VA)*
D.C. Voltage	*24 / 48 / 110 V (± 20% / galvanically isolated / <3W)*
WEIGHT & CASE SIZE	*Approx. 0.4 kg. 55mm case*

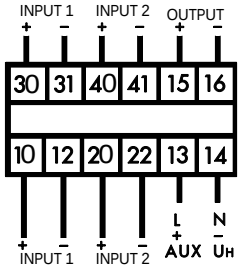
ORDERING INFORMATION

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