DITHERM

Modules for additional analogue I/O

DITHERM is an electronic module capable of extending the number of analogue inputs for controllers.

DITHERM module allows the simultaneous connection of different types of thermocouples. It is equipped with three insulated channels.

It allows to get up to 3 signals from thermocouples. The inputs are insulated and it is possible to simultaneously connect different types of thermocouples.

DITHERM can be connected to the following controllers: DST4602, GC315, GC400, MC400, GC600, MC200 and HS315, using the canbus interface.

DITHERM is also available in a RS485 Modbus RTU version. This allows monitoring of the thermocouples measurements remotely using the Mecc Alte SS3 software.

It is possible to set thresholds of alarms and warnings for each temperature input with a time delay for activation.

The type of the thermocouple is set using the parameters or using switches.

The configuration is user-friendly, through the Mecc Alte PC configuration software.

LED INDICATORS

Led on work	Led running (flashing indicates the device is operating)
Led remote	Indicates the communication is active
Led alarm out	Common alarm / warning sensors temperature
Led temp 1	Indicates alarm or warning sensor temperature 1
Led temp 2	Indicates alarm or warning sensor temperature 2
Led temp 3	Indicates alarm or warning sensor temperature 3

ENVIRONMENTAL CONDITIONS

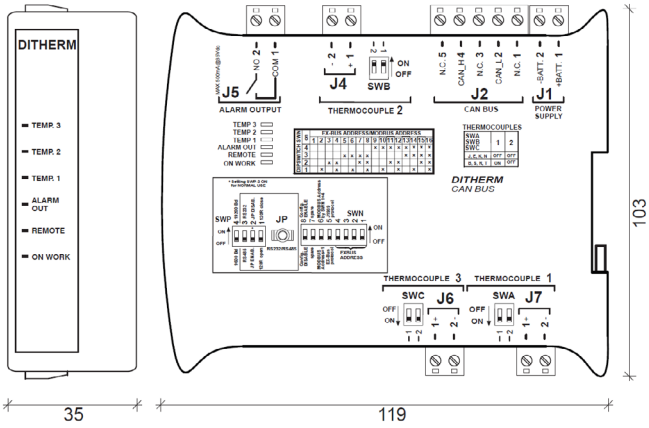
Operating temperature	-20°C +60°C
Humidity	From 30 to 90 %
Temperature warehousing	-20°C a +70°C
Protection degree	IP 20

THERMOCOUPLE INPUT

Thermocouple

Type	Range Min	Range Max	Resolution	Tolerance %
B	50 °C	1800 °C	0,5 °C	1,5
R	0 °C	1400 °C	0,5 °C	1
S	0 °C	1530 °C	0,5 °C	1
J	0 °C	970 °C	0,5 °C	1
E	0 °C	750 °C	0,5 °C	1
N	0 °C	1300 °C	0,5 °C	1
K	0 °C	1300 °C	0,5 °C	1
T	0 °C	350 °C	0,5 °C	1

Channel number	3
Cold junction compensation	From 0°C to 60°C
Input impudence	470 KΩ
Sampling timing	300 msec



DIMENSIONS AND WEIGHT

Height	103mm
Length	35mm
Depth	119mm
Weight	165g

If required, available tropicalized version for hazardous areas.