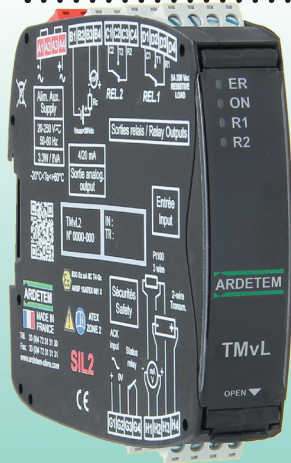


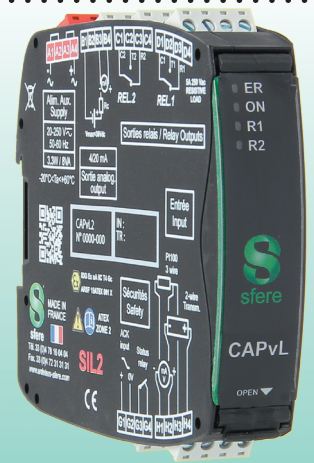
TMvL2 / CAPvL2

ARDETEM

SFERE



- 1 DC input: mA, or V, or 3-wire Pt100
- Supply for 2-wire transmitter
- 1 analog output 4-20mA active or passive, SIL2
- 2 relay outputs with positive safety (break/make contact), SIL2
- 1 logic input for initialisation of the alarms and the SIL failure
- 1 relay output for the SIL status (N.C. contact)



General features

Power supply: 20 to 250 Vac and 20 to 250 Vdc
Power consumption: 3.3W max. 8 VA max.
Dielectric withstanding: 3kV / 50Hz / 1min.
(measure input / analog output / relay output n°1 / relay output n°2 / SIL status relay output / logic input)
Operating temperature: -20 to +60°C
Storage temperature: -20 to +70°C

Installation:

Pollution degree 2 / voltage surge II
Protection: housing / terminals: IP20
Self-extinguishing case of black UL 94VO PA66
Mounting in cabinet: latching on symmetrical DIN rail
Removable terminal blocks for screwed connections (2.5 mm², flexible or rigid)
Weight: 290 g (with packaging)

Compliance with standards:

Directive «electrical safety» 2014/35/UE..... EN 61010-1 : 2011
Directive «EMC» 2014/30/UE EN 61326-1 : 2013
Functional safety SIL2..... IEC 61508 : 2010
Directive «ATEX» 2014/34/UE (area 2):..... EN60079-0 : 2011,
..... EN60079-15 : 2010

ATEX area 2  II 3 G Ex nA nC IIC T4 Gc

Marking: 

Transfer:

Accuracy rating: ≤ 0.1%
Thermal drift: < 150 ppm/°C

Functional safety:

SIL operation status relay: 1 N.C. contact (170mA / 150Vac on resistive load)
Logic isolated input:
Acknowledgement of the safety failure or of the recorded alarms.

LOGIC INPUT CODING	T24	T125
Active level	> 6V (32V max.)	> 27V (150V max.)
Inactive level	< 2V	< 9V
Input impedance	20 KΩ	135 KΩ

Features of the input

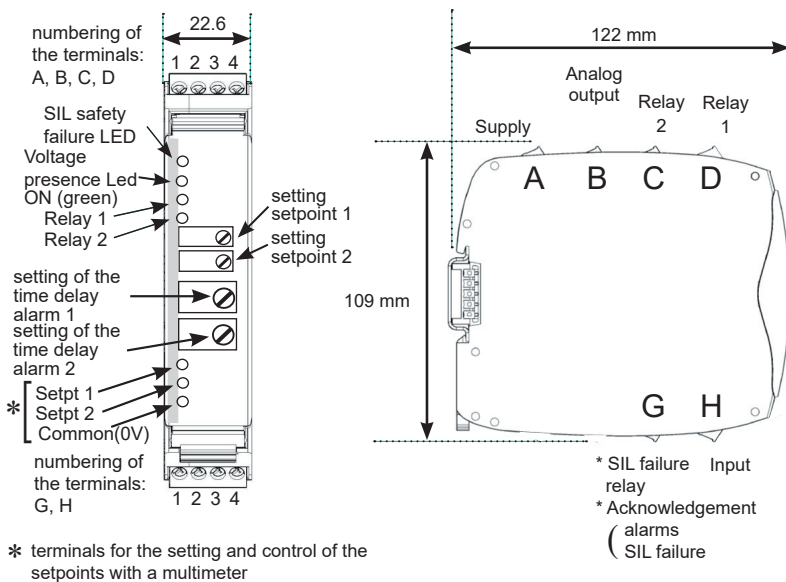
- **3-Wire Pt100 input:**
 - Calibers: -100 to +200°C, 0 to 600°C, 0 to +800°C (*)
 - Line resistance: 50Ω max. per wire
 - Influence of the line resistance: 0.03°C / Ω
 - Sensor current: 0.5 mA
 - Detection of the sensor break: yes
 - Short-circuit detection: yes
- **DC voltage input:**
 - Calibers: 0 to +100 mV, 0 to +10 V (*)
 - Input impedance: 10MΩ
 - Detection of the sensor break: yes
- **DC current input:**
 - Calibers: 0 to 20 mA, 4 to 20 mA (*)
 - Input impedance: 15Ω
 - Detection of the sensor break: yes for the caliber 4-20mA
 - 2-wire sensor supply protected from short-circuits: 24Vdc ±15% 25mA max.

Features of the outputs

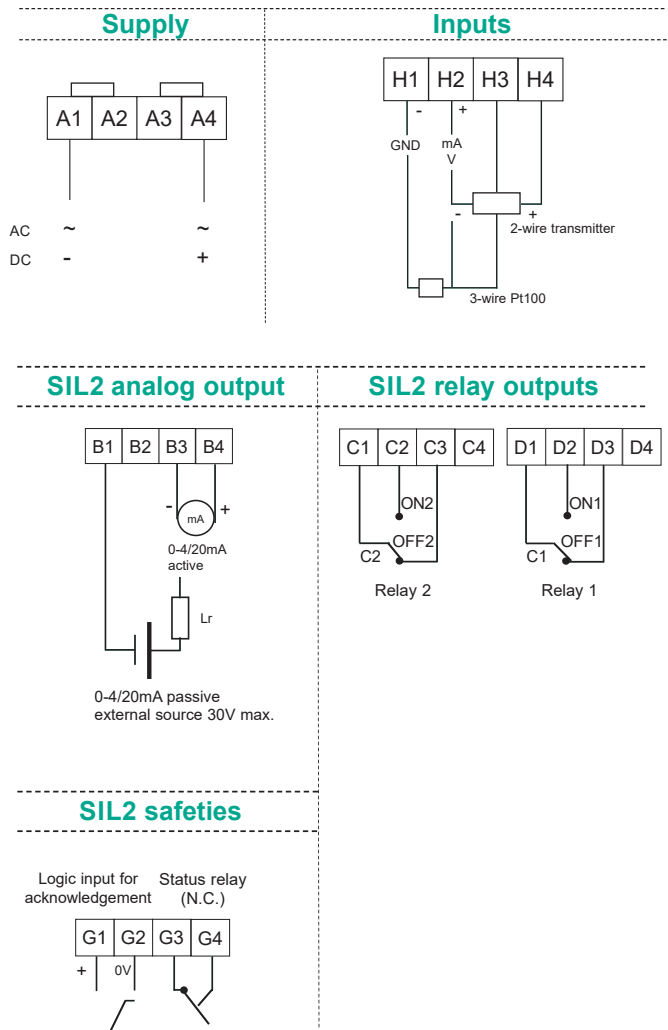
- **Isolated analog output:**
 - Type: current, 4 to 20 mA, active or passive
 - Detection of the output break: yes
 - Load impedance at 20mA: max. LR = 600Ω
 - External source max. = 30Vdc (if passive output)
 - Ripple: ≤ 0.5% of the caliber
 - Response time: ≤ 150ms in standard (10ms to 30s on request (*))
- **Relay outputs:**
 - Positive safety
 - 1 break/make contact (5A / 250Vac on resistive load)
 - Setpoint: high or low (*)
 - (adjustable on front face: 0 to 10 V for 0 to 100% of the cal.)
 - Max. hysteresis : 2% of the caliber
 - Alarm recording: yes, with acknowledgement by logic input (*)
 - Response time at the latching of the alarm: 10ms < rt < 20s
 - (setting of the max. tr by 1-turn potentiometer on front face)

(*) To be defined on order, consult with us for other configurations.

Dimensions



Connectings



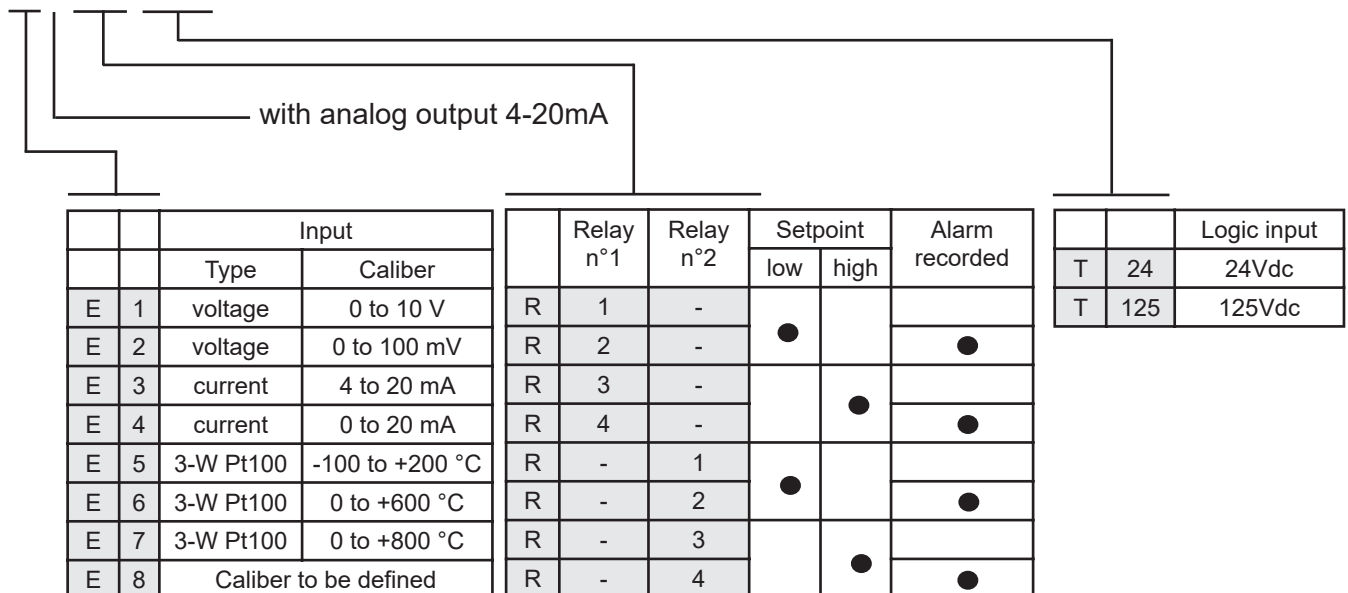
Coding

ARDETEM reference: TMvL2

SFERE reference: CAPvL2

TMvL 2ExARxx Txxx

CAPvL 2ExARxx Txxx



(configuration performed exclusively at the factory)



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