

DIGITAL MEASURE TRANSMITTER

true RMS measurement

TAI60/ μ TAC60

ARDETEM

SFERE



Type

Measure transmitter for AC current and voltage.

Functions

- Input type, programmable:
 Current: 1A and 5A AC
 Voltage: 100V L-N / 175V L-L and 330V L-N / 600V L-L
- Quick cycle time: 40ms
 - Universal (switching) power supply



Options

- ♦ Analog outputs (up to 2 outputs)
- ♦ 2 relay outputs

Environment

- Operating temperature:
-10°C to +55°C.
- Storage temperature:
-25°C to +70°C.
- marking



♦ Programming by PC: Software SuperVision / MC VISION

- Software for programming and analysis (Windows environment) allowing:
- the storage of configurations as files which can be consulted, modified, duplicated or loaded into the converters,
 - the edition and printing of files with or without having a converter connected.

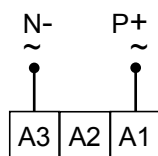
♦ Programming by μ Console

- This miniaturised μ Console, clippable on the front face of the instruments, allows:
- the visualisation of the measure,
 - the visualisation and modification of the programming
 - the teleloading of programming files for duplication to other converters.

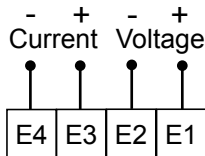


Connectings

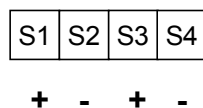
Supply



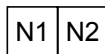
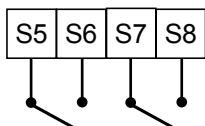
Inputs



Analog outputs



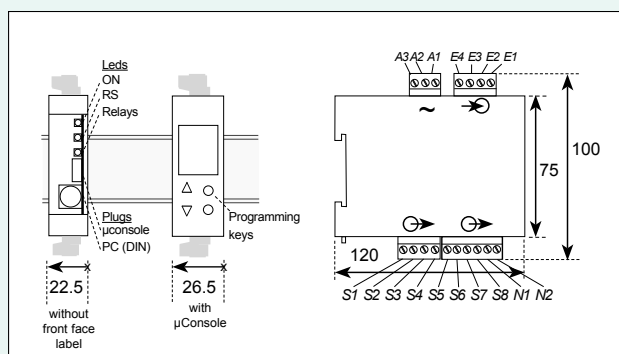
Relay outputs



NOT CONNECTED

Dimensions

Dimensions: (H x L x D) 75 x 22.5 x 120 mm
With μ Console: 80 x 26.5 x 130 mm



- Housing** : Self-extinguishing case of black UL94V0 ABS
Connectors : Plug-off connectors for screwed connections (2.5mm², flexible or rigid)
Protection : Housing / terminals: IP 30



Technical features

► Inputs

- **Voltage** 2 programmable ranges:
Un=100V L-N / 175V L-L & 330V L-N / 600V L-L
 - **Current** 2 programmable ranges: 1 & 5A (In=1.2A & In=6A)
- Measurable oversteppings* 1.2 In; 1.2 Un
- Overload* permanent: 750 V, 2 In
during 10 s: 1000 V, 10 In
- Power draw* voltage input: resistances 1 MΩ
current input: < 0.2 VA
- Test voltage* 2 kV / 50 Hz / 1 min.
- Frequency* 10...50...65 Hz (other frequencies: consult)

► Outputs

• **Analog outputs** (option **A** or **2A**)

- Galvanic partition* 1kV (between outputs)
2kV (inputs)
- Output signal* programmable:
0/5mA 0/10mA 0/20mA 4/20mA
- Scale setting* 0 to 100% of the measure range (programmable)
- Admissible load* up to 600Ω (20mA)
- Accuracy of the card* < 0.1% of the full scale on -20/20mA
< 0.2% on -5/5mA
- Max. residual ripple* >25mV (peak to peak) on 500Ω load
- Response time* typical 60ms, max. <100ms (input/output)
- Thermic drifts* < 120 ppm caliber -20/+20mA
< 200 ppm caliber 0/20 mA

• **Relay outputs** (option **R**)

- Type of contact* on potent. free contact (galvanic partition: 2KV)
output 1 NO
- Rated load* 5A - 250 VAC
- Setting of the setpoints* 0 to 100% of the measure range (programmable)
- Switching hysteresis* 0 to 15% of the setpoint (programmable)
- Time delay* 0 to 15s (programmable)

► Supply

- Universal power supply
20...270 V_{AC} / 20...300 V_{DC}
- Power draw 6 VA max. in AC, 3.5W max. in DC

► Measure

- Accuracy rating* Voltages, currents: 0.2 (CEI688-1)
- Thermic drifts* < 200ppm
- Measuring method* Fast simultaneous sampling of the voltage and the current. Digital calculation on 32 bits. Measurement of deformed signals, pass-band 6.4KHz
- Digital filtering* programmable on several levels

► Wiring

With detailed handbook, provided with the instrument.

Coding

Types:

ARDETEM reference: TAI60

SFERE reference: μTAC60

Options:

- R** 2 relay outputs
- A** 1 analog output
- 2A** 2 analog outputs

Order example:

- For a TAI60 or a μTAC60 with 2 relay outputs, 2 analog outputs request the reference:

TAI60/μTAC60 2AR

- For a TAI60 or a μTAC60 with 1 analog output and 2 relay outputs request the reference:

TAI60/μTAC60 AR

This appliance is dedicated to industrial applications. It has to be installed in an electrical switchbox, or equivalent.



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