

PROGRAMMABLE CONVERTER



μC 3200I / 10I / 10IC

Features

► Frequency measure or counting input:

Possibility of connection (without external components) to sensors of the type npn, pnp, logic, namur, contact, alternating up to 500 V.

μC 10I/μC3200I: Mode frequencymeter

μC 10IC: Mode counting

► Logic input

► Self-diagnosis

► Insulation between input / outputs / supply

► Universal power supply: 20 to 270 VAC 20 to 300 VDC

► 1 insulated analog output (A) μC 10I/10IC

Programmable in 0-4-20mA (active or passive) current, or in 0-10V voltage.

► 2 insulated fast analog outputs

μC3200I

0-4-20mA current or 0-10V voltage (specify on order)

► Relay outputs (R):

μC3200I: 2 relays 1NO: 5A/250 Vac on resistive load

μC 10I / 10IC: 2 inverting relays 8A/250 Vac on resistive load

► Digital output (N) insulated: μC 10I/ 10IC

RS 485 Modbus /Jbus

(Possible only with an active current output)

► Mode driver: the analog output is piloted either locally by the micro-console or by the digital data link (μC 10I/ 10IC).

► Function simulation of the input measure

► Programming with the micro-console or by PC via the software MCVision.

Functions

• Frequency measure or counting input:

In mode frequencymeter: μC 10I/3200I

- Measurement of a signal varying from 0.01 Hz to 130kHz (according to the input type), with an accuracy of 0.025% of the measure and a thermic drift < 50 ppm/°C.
- Special linearisation in 41 points.
- Enlarging effect

In mode counting: μC 10IC

- Programming of a pulse weight, of an initialisation value and a self-initialisation setpoint.
- Saving of the counter in case of power supply cut.

• Logic input

Type of sensor: potential free contact, logic (0-5 V)
Not insulated from the measure input
Display hold
0 reset of the min. and max.
0 reset / re-load / counter stop and start (μC 10IC)

Configuration

A range of measure interfaces fully programmable either with the micro-console or by PC (configuration software for all the range of SFERE programmable converters)

• Programming with the micro-console

This miniaturised micro-console connected on the front face of the instruments allows:

the visualisation of the measure and the status of the analog and relay outputs,
the visualisation and the modification of the programming,
the teleloading of programming files for duplication to other converters.



• Configuration software

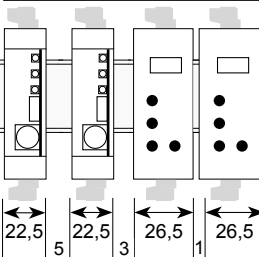
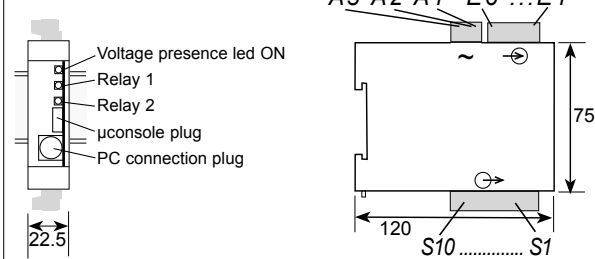
- Programming software (Windows environment) allowing:
 - the storage of configurations as files which can be consulted, modified, duplicated or loaded into the converters,
 - the edition and printing of files with or without having a converter connected.
- Digital data link RS485 (Modbus/Jbus)(μC 10I/10IC)
 - Allows the communication with processing and exploitation sets (PLC's), as well as a complete configuration of the input, the output and the safeties.

Dimensions

Self-extinguishing case of black UL 94VO ABS

Mounting in switchbox: latching on symmetrical DIN rail.

Rack version: consult with SFERE A3 A2 A1 E6 ... E1



Dimensions : 22.5x75x120 mm
With μconsole : 26.5x80x130 mm

To allow inserting the μconsole:
mount the instruments vertically (on horizontal DIN rail) leaving a 5mm space between each.

Operating T°: -10° to 50°C
Storage T°: -20 to 70°C

CA
CO/96

