

PROGRAMMABLE SIGNAL CONDITIONER

TPIv 10I AR FY SP0404

CONTROL OF THE SPEED OF A GENERATOR WITH MEASUREMENT OF THE REMANENT



Features

- **Universal power supply:**
20 to 250 Vac and 20 to 250 Vdc
- **AC input:**
from 100mV to 500 Vac
- **Frequency:** 0 to 60Hz
- **Isolated analog output (A)**
0-4-20mA (active/passive) current
or 0-10V voltage .
- **Relay outputs (R):** 2 change-over relays
(8A/250 VAC on resistive load).

Self-diagnosis.

*Isolation between input/ outputs / supply.
Mode simulation: allows validating the
configuration or the installation.*

*Programming either with micro-console
with the PC software SlimSET via a
standard USB / μ USB cable.*

Functions

- Frequency measure input:
 - Measurement of a signal varying from 0 Hz to 60 Hz,
with an accuracy of 0,025% of the measure and a
thermal drift < 50 ppm/°C.
 - Special linearisation on 10 points
 - Enlarging effect
- 2 independently programmable relays.

Configuration

Easy programming on front face with a micro-console or with the PC software SlimSET (via a standard USB/ μ USB cable).

Programming with the Micro-console

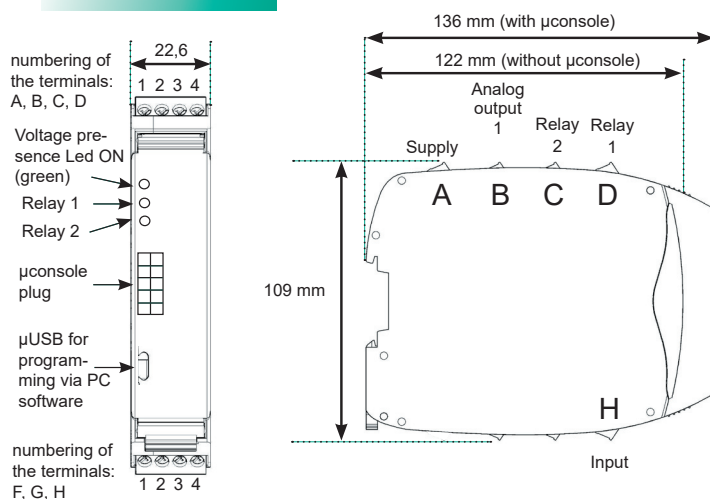
The graphical rear-lit LCD with tactile keyboard allows to visualise the following information:

- the measured value with its unit,
- the value of the analog output,
- the product tag name,
- the status of the relay outputs.
- Scrolling message for programming help in various languages
- Passcode protected programming
- Programmable keys for direct access

Programming by PC: SlimSET

Programming software (Windows environment) allowing:
The storage of the 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 signal
conditioner connected.

Dimensions



Coding

Type TPIv 10I AR FY SP0404

Outputs:

A analog I/U isolated
R 2 change-over relays

Features

Input

- **Type of sensor:**
 - **Alternating:**
AC from 100 mV to 500 V.
Input resistance: 600 K Ω
- **Measurable frequency:** from 0 to 60 Hz
 - accuracy 0.025%
 - scale factor programmable
 - special linearisation in 10 points (x and y).

Outputs

Code	Type of OUTPUT	Features
A	1 analog	Active/passive current
		Current: Direct or reversed 0-20mA Load impedance $\leq R_c$ 600 Ω Voltage: Direct or reversed 0-10V Load impedance $\geq L_r$ 5K Ω
R	2 change-over relays	Accuracy: 0.1% in relation to the display Ripple: 0.2%
		Response time in relation to the display: 1ms
R	2 change-over relays	2 setpoints per relay configurable over the whole MR. Hysteresis programmable from 0 to 100%. Time delay programmable from 0 to 999,9 sec. (8A/250 VAC on resistive load)

Others

Power supply: 20 to 250 Vac and 20 to 250Vdc
Power consumption: 2.8 W max. 6 VA max.
Dielectric withstanding: 3 kV-50Hz-1min.
Operating temperature: -20 to +60°C
Storage temperature: -20 to +70°C
Installation: Pollution degree 2 and voltage surge II.

Protection: case / terminals: IP 20
 Removable terminal blocks for screwed connections
 (2.5 mm², flexible or rigid)
 Weight: 290g (with packaging)
 Self-extinguishing case of black UL 94VO PA66.
 Mounting in switchbox: latching on symmetrical DIN rail.

Compliance with standards:

Electrical safety EN 61010-1
 ATEX 2014/34/UE (area 2)..... EN 60079-0, EN 60079-15
 Directive EMC 2014/30/UE EN 61326-1

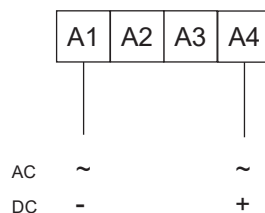
Marking:



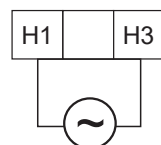
II 3 G Ex nA IIC T4 Gc

Connectings

Supply



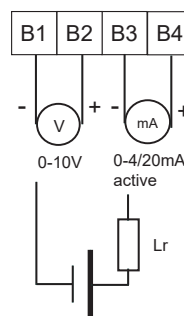
Inputs



AC from 100mV to 500V

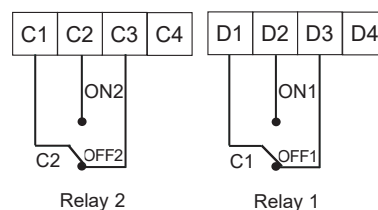
Outputs

Analog output



0-4/20mA passive
external source 30V max.

Relay outputs



Relay 2

Relay 1

your representative



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