

Frequency converter BAMOTOP 281



- For any pulse emitter such as: BAMOFLU, BAMOTUR, Micro-stream, FFG, DF 140, Counters M, BAMOMATIC (12 V)
- Input modes to configure
- Range: 1 ... 25000 Hz
- Galvanic insulated output
- Current: 0/4-20 mA or 0-5/10 V
- Response time to set up
From 5 ms up to 10 s
- Main power supply: 85 ... 250 V AC
- DIN rail mounting

APPLICATIONS

BAMOTOP 281 converts a frequency signal to a calibrated analogue voltage or current signal.
Input types, set up by DIP switches, are: free potential contacts, CMOS and TTL, Hall Effect and NPN or PNP sensor outputs.
The frequency measuring range for the analogue signal output, is easily set up by DIP switches.
Two other parameters can also be set.

Response time, low limit:

To fix the minimum period for updating output signal; it also allows to filter gaps and too low signal variations.
It sets the threshold for "low frequency filter".

Response time, high limit:

It sets the threshold for "high frequency filter".
In association with our flow-meters BAMOFLU, FFG, MICRO-STREAM and all counters with pulse signal output above 1 Hz, BAMOTOP 281 is part of an efficient measuring loop.

CODE NUMBERS AND REFERENCES

Code	Reference	Description
281 300	BAMOTOP 281	Programmable frequency converter.

TECHNICAL FEATURES

Main power supply	85 ... 250 V AC; 48 ... 62 Hz; 6.5 VA
Supply to sensor	12 V DC $\pm 25\%$ (60 mA max.)
Connections	Screw connectors
Frequency range	1 to 25,000 Hz for full scale output
Output signal	0/4 - 20 mA (500 Ω max.) or 0-5/10 V (1 k Ω min.)
Accuracy	$\pm 0.1\%$
Resolution	5 μ A min. / 3.5 mV min.
Response time	To set from 5 ms up to 10 s
Input signal	Set up through DIP Switches (7 positions), rotary switch (10 positions) and 1 push-button
Status display	Input: 1 Green LED; Output: 1 Red LED
Temperature	0... +50 °C (operating); -40 ... +80 °C (storage)

CE conformity The device complies with the legal requirements of the current European Directives.

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Frequency converter
BAMOTOP 281

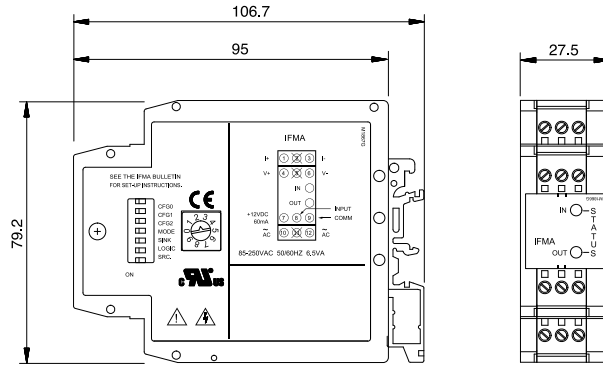
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DIMENSIONS



PROGRAMMING

There are 3 switches in use for programming the input according the type of sensor.
Programming: range/ output/response time, done through 4 elements.

- 1 DIP Switch to switch on set up mode
- 1 rotary switch (10 steps from 0 to 9) to set up the values
- 2 LED (1 Green and 1 Red) for status signaling.
- 1 push-button to save the settings

All these operations are simple and easy to follow up through the manual.
Each device may be delivered with ready to work set up according operating parameters for our sensors (on request).
Without information, factory set up is: output of 4-20 mA for input of 0 ... 10 kHz and response time 5 ms.

EXAMPLES OF ELECTRIC CONNECTIONS

Following examples are and only for 230 V AC converters.
On request, BAMOTOP 281 is supplied for a supply of 10 ... 30 V DC - 6 W (Caution: it does not have supply to sensor).

