

Frequency signal to current signal converter BAMOTOP 281



- Frequency input, in particular from:
BAMOFLU 780, BAMOTUR 781,
BAMOMATIC 775,
- Input configuration by 3 switches
- Ranges: 1 to 25000 Hz
- Output: 0/4-20 mA or 0-5/10 V, galvanic insulated
- Response time: 5 ms to 10 s
- Main power: 85 to 250 V AC
- Sensor supply: 12 V DC

PRINCIPLE

The converter BAMOTOP 281 transforms numerically a frequency signal to transmit an analogic current or voltage.

Inputs types are: free voltage contacts, all switches, CMOS, TTL, Hall Effect sensors, NPN/PNP...

The output range is configured on site by switches.

There are two more configurable parameters:

- **Minimal response time**, to fix the minimal period for signal output actualization; it also filters any over gap or high frequency signals.

- **Maximal response time**, to fix the low frequency limit.

The converter BAMOTOP 281 is particularly well adapted for our BAMOFLU, BAMOTUR, BAMOMATIC, FFG, MICRO-STREAM and all counters with pulse signal output with a frequency above 1 Hz.

TECHNICAL FEATURES

Main power:	85 to 250 V AC - 48 to 62 Hz - 6.5 VA
Sensor supply:	12 V CC \pm 25% / 60 mA as a maximum
Electrical connections:	Screw connectors
Frequency range:	Scalable between 1 to 25 kHz
Output:	0/4 - 20 mA (maximal 500 Ω) or 0-5/10 V (minimal 1 k Ω)
Accuracy:	\pm 0.1 %
Resolution:	5 μ A min / 3.5 mV min
Response time:	Adjustable from 5 ms to 10 s
Ambient temperature:	0 to 50°C (storage - 40...+80°C)

CODE NUMBERS AND REFERENCES

Code	Reference	Designation
281 300	BAMOTOP 281	Frequency converter

BAMO MESURES

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CONFIGURATION

Only three steps are necessary to configure the converter.

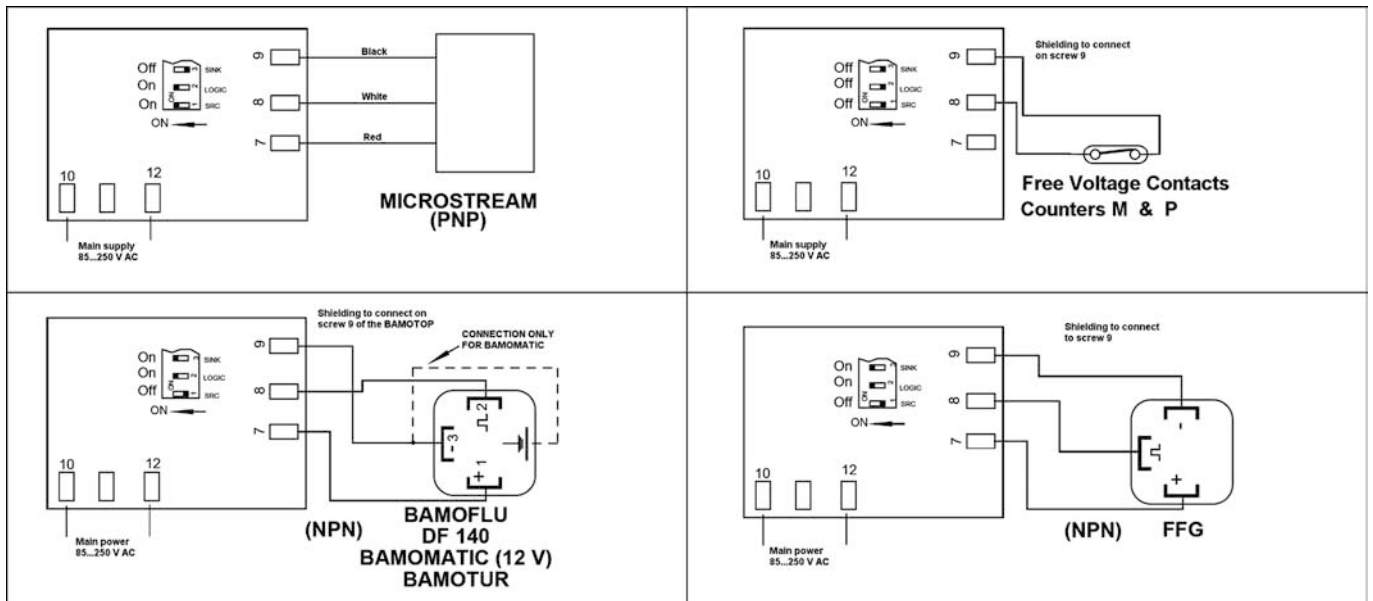
The range, output, response time are adjusted through 4 elements:

- Dip switches for programming mode
- Rotary selector (0 to 9) to set up values
- Two LED for status indication
- A switch to validate the configuration.

Programming a converter BAMOTOP 281 is quick and easy. We send it pre-adjusted if all process parameters are mentioned on the order; if not, the default configuration is 4-20 mA for an input signal of 0...10 kHz, response time 5 ms.

ELECTRICAL CONNECTIONS

The BAMOTOP 281 is available also for a main power supply of 24 V CC: in this case the electrical connections are different from these examples (this converter does not have sensor supply).



DIMENSIONS

