

TA1200 INSTRUCTIONS MANUAL



Size 48 x 24 mm frontal

Panel instrument for measuring **frequencies, velocities in r.p.m. or lineal**, totally programmable by keyboard.

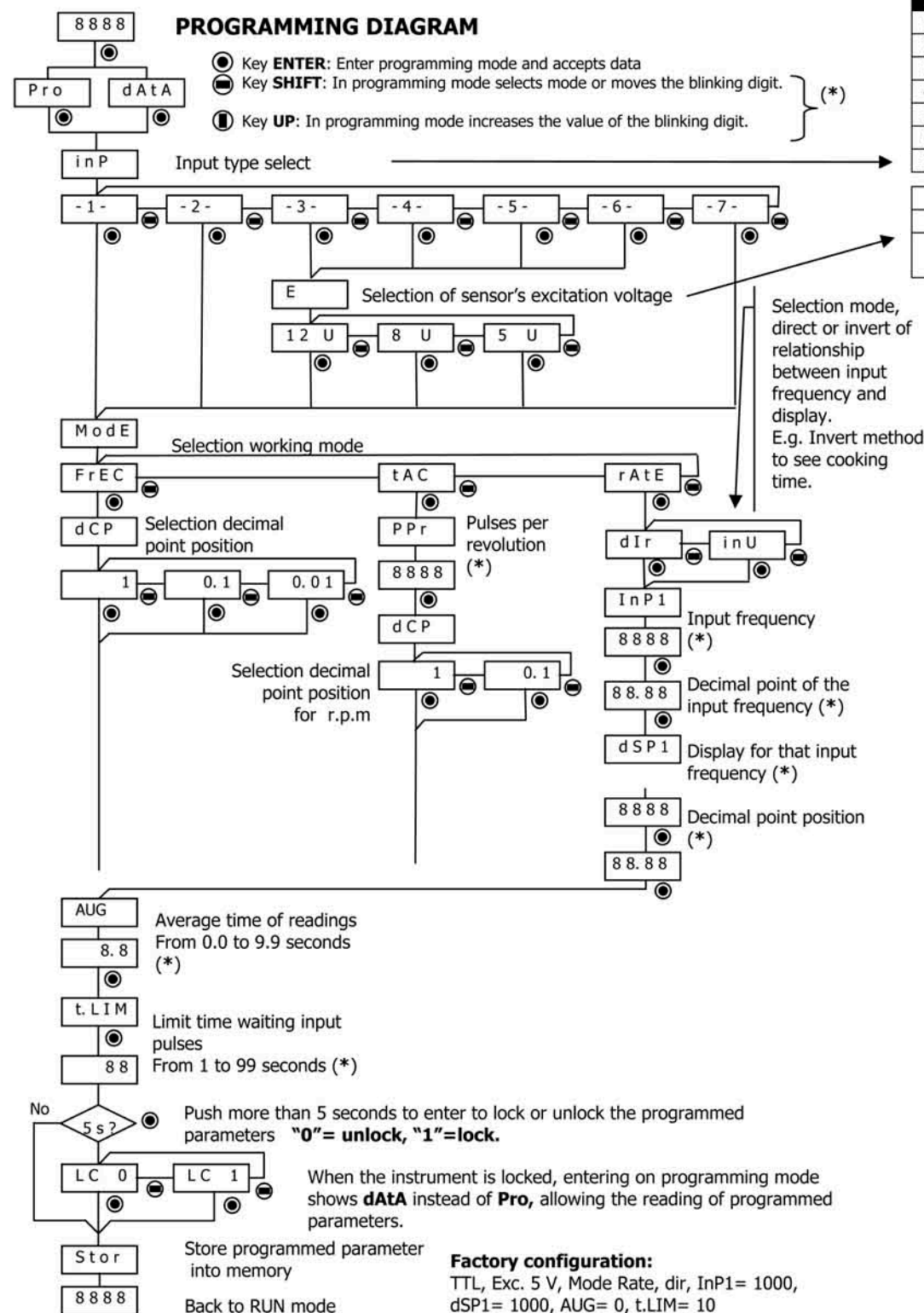
Display range from 0 ÷ 9999, decimal point position programmable.

Keyboard composed of three keys located on the bottom of display.

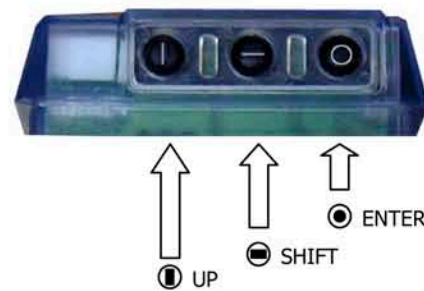
Accepts the connection of most Standard sensor: Pick-up Magnetic, Namur, PNP, NPN, switch, as well as the possibility of measuring frequencies from signals in the range of 10 to 600 V ac. E.g. the frequency of main voltage supply.

Frequency ranges: 99,99 Hz, 999,9 Hz and 9999 Hz

Tachometer in mode TAC programming only the pulses per revolution or in mode Rate programming the relationship between Frequency / display (in desired engineering units)



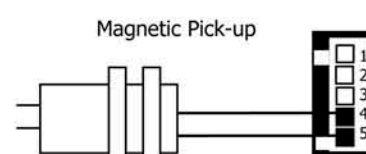
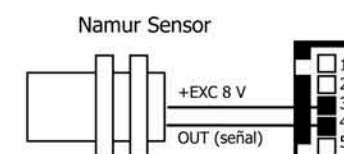
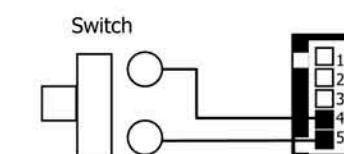
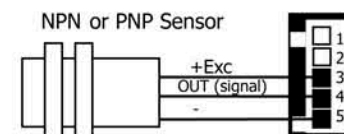
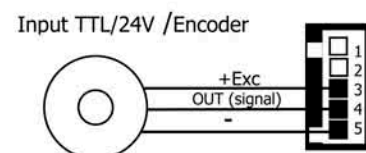
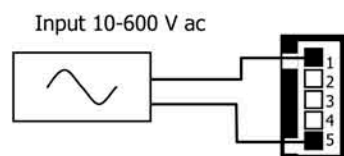
KEYBOARD BOTTOM VIEW



INPUT TYPE	
1	10-600 V
2	Magnetic Pick-up
3	NAMUR
4	PNP
5	NPN
6	TTL/24 V dc / Encoder
7	Switch

5 V	TTL
8 V	Namur
12 V	Sensor or encoders

INPUT CONNECTIONS



TECHNICAL CHARACTERISTICS

INPUT

Max. Frequency.....7 kHz
Min. Frequency0.01 Hz
Excitation..... 5, 8, 12 V dc @ 60 mA (keyboard programmable)

High Voltage Input10 to 600 V ac
Pick-up magnetic Vin > 30 mV eff. (60 Hz)
..... Vin > 300 mV eff. (6kHz)

NAMUR Sensor

• Rc..... 1.5 kΩ
• I on < 1 mA
• I off > 3 mA

NPN y PNP Sensors

• Rc..... (NPN) 3k9 Ω, (PNP) 1k5 Ω
• Logical levels..... "0" < 2.4 V, "1" > 2.6 V dc

TTL/24 V dc (encoder)

• Logical Levels..... "0" < 2.4 V, "1" > 2.6 V dc

Switch

• Vc..... 5 V (internal)
• Rc..... 3,9 kΩ (included)
• Fc..... 20 Hz (automatically connected when selected switch input)

ACCURACY

Max. Error±(0.01 % of reading + 1 digit)
Temperature coefficient..... 50 ppm/ °C
Warm up 5 minutes

SUPPLY and FUSES (DIN 41661) (not included)

TA1200 85 – 265 V ac 50/60 Hz y 100-300 Vdc.... F 0.1A/ 250V
21-53 VAC 50/60Hz y 10,5-70VDC..... F 0.5A/ 250V
Consumption2,2W

DISPLAY

Range 0 to 9999
Type 4 red digits, 10 mm
Rate 10/s
Overflow indication **Over**

ENVIRONMENTAL

Operating temperature..... -10°C ÷ +60°C
Storage temperature -25°C ÷ +85°C
Relative humidity (non condensed) <95% ÷ 40°C
Maximum altitude 2000 m.
Panel sealing IP65

DIMENSIONS

Dimensions..... 48 x 24 x 70 mm.
Panel cutout 45 x 22 mm.
Weight 50 g.
Case material..... Poly carbonate s/ UL 94 V-0



WARNING

In order to guarantee electromagnetic compatibility, the following guidelines for cable wiring must be followed:
Power supply wires must be routed separated from signal wires. Never run power and signal wires in the same conduit.
Use shielded cable for signal wiring and connect the shield to ground.
The cable section must be ≥ 0.25 mm²

INSTALLATION

To meet the requirements of the directive EN61010-1, where the unit is permanently connected to the mains supply it is obligatory to install a circuit breaking device easy reachable to the operator and clearly marked as the disconnect device.

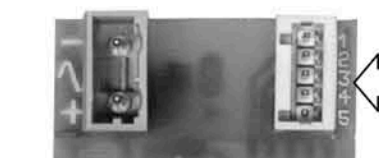
CLEANING: The frontal cover should be cleaned only with a soft cloth soaked in neutral soap product.

DO NOT USE SOLVENTS

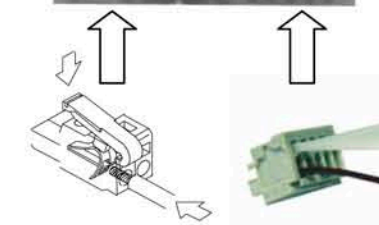
INSTALLATION AND CONNECTIONS



Keyboard detail (bottom view)



1. Input 10-600 V ac
2. Free
3. + Exc.
4. Signal Input
5. - Common



BaumerIVO

ZI SUD - 3, rue Denis Papin

F-67403 ILLKIRCH

Tél 03.88.55.29.00

Fax 03.88.55.29.19

info.fr@baumerivo.com

www.baumerivo.com



TA1200 Edition E0