Data Sheet for sensor accessories

MEGATRON

Programmer for programmable encoders ETA PM and HTA PM	Series PRO
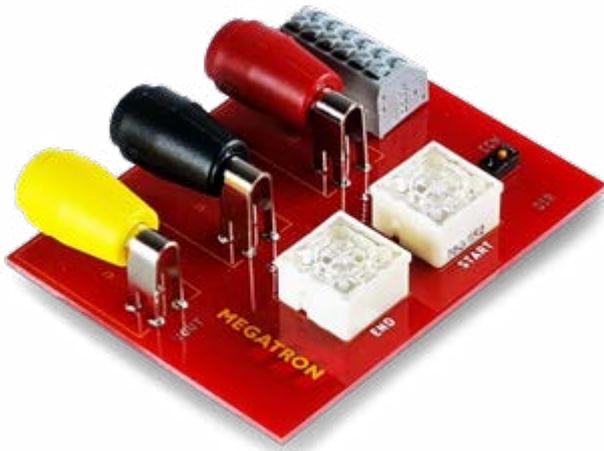
- Programmer for parameterization of Hall Multi-/single turn rotary encoders of series ETA25PM, HTA36PM and HTA25PM
- Allows the parameterization of one rotary encoder 10.000 times
- 3 x Ø 4 mm sockets (for banana plugs) for power supply and output signal
- 6 cable terminals for a fast and secure electrical connection of the rotary encoder
- 2 buttons (start/stop) for parameterizing the effective electrical angle of rotation
- DIP switch for setting the sense of rotation CW or CCW

The programmer enables the uncomplicated, fast parameterization of encoders of the MEGATRON series ETA25PM, HTA36PM and HTA25PM, which can be adjusted exactly for the purpose of the encoder in the application. For quick electrical connection of the sensor, the programmer has clamp contacts with actuation buttons, which is particularly useful for series parameterization.

Electrical Data

Programmable effective electrical angle of rotation	0..10° to 0..72000° (max. 200 turns)
Supply voltage	9 to 30 V for angle sensor output 0 to 5 V 15 to 30 V for angle sensor output 0 to 10 V 11 to 30 V for angle sensor with output 4 to 20 mA
Power consumption	Not measurable if rotary encoder is not connected With connected rotary encoder < 10 mA
Output load	≥ 5 kOhm
Electrical connection to the sensor	6 pol. terminal block with push buttons, pitch 3.5 mm, wire gauge max. 1.5 mm²
Electrical connection for supply voltage and output signal	3 x Ø 4 mm sockets, applicable for spring-loaded Ø 4 mm plugs with rigid insulating sleeve (banana plug)
Maximum number of programming cycles	10000 times (per connected rotary encoder)

The programmer has exposed contacts (IP00) and is intended for rudimentary testing. ESD protection must be observed and the programmer must be operated on a non-conductive surface.

Mechanical and Environmental Data

IP protection grade (IEC 60529):	IP00
Operating temperature	0°C...+35°C
Storage temperature	-20°C...+45°C
Included in delivery	Programming device (no further components included in delivery)
Mass	app. 32 g

Order Information:

Order no.	Order code
135945	Programmer Tool for ETA HTA PM

MEGATRON Elektronik GmbH & Co. KG ▪ Hermann-Oberth-Strasse 7 ▪ 85640 Putzbrunn / Munich
Tel.: +49 89 46094-0 ▪ www.megatron.de ▪ info@megatron.de

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Connection Matrix

Function	Connection to	Connections at the programmer	Marking on the programmer	Colours of the cable terminals at the programmer	Rotary encoder cable sheath colour
VSUP 1	Programmer	Ø 4 mm socket	VSUP	red	-
OUT 1	Programmer	Ø 4 mm socket	OUT	yellow	-
GND 1	Programmer	Ø 4 mm socket	GND	black	-
VSUP 2	Rotary encoder	Clamping terminal	VSUP	grey	red
GND 2	Rotary encoder	Clamping terminal	GND	grey	black
OUT 2	Rotary encoder	Clamping terminal	OUT	grey	brown
SENSE OF ROTATION (CW/CCW)	Rotary encoder	Clamping terminal	DIR	grey	orange
START point (0°)	Rotary encoder	Clamping terminal	START	grey	yellow
END point (XXXX°)	Rotary encoder	Clamping terminal	END	grey	green
CABLE SHIELD (only HTA36PM, HTA25PM, HTA25KPM)	Rotary encoder	none (cable shield won´t be connected to the programmer)	-	-	-

The programming instruction manual can be found on the MEGATRON website at the corresponding sensor series (ETx25, ETx25K, ETx25F, HTx36, HTx25, HTx25K)

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