

Read this document carefully before using this device. The guarantee will be expired by damaging of the device if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

## **ENDA ETS762 TACHO LINE/SPEED METER**

Thank you for choosing ENDA ETS762 TACHOMETER.

- \* 72x72mm sized.
- \* 2x6 digits display.
- \* Easy to use by front panel keypad.
- \* On and Off times of the input pulses can be selected.
- \* Sensor type can be selected as PNP or NPN.
- \* Sampling time can be adjusted between 0.2s and 16.0s.
- \* Selectable functional reset.
- \* Double set-points control is made by 2 relays outputs.
- \* Output can be energized while process value is greater or lower than the
- Time delay can be included to the output operation.
- \* Output can be energized continuously or just for a time interval of 0.1 to 999.9 seconds.
- \* Decimal point can be adjusted between 1. and 5. digits.
- \* Prescaler factor can be adjusted between 0.00001 and 999.999 for calibration.
- \* Display configuration can be adjusted.
- \* Parameter access protection on 3 levels.
- \* Easy connection by removable screw terminals.
- \* CE marked according to European Norms.



24VAC....24V AC

SM.....9-30V DC / 7-24V AC





## **TECHNICAL SPECIFICATIONS**

ENVIRONMENTAL CONDITIONS				
Ambient/storage temperature	0 +50°C/-25 +70°C (with no icing)			
Max. relative humidity	80% up to 31°C decreasing linearly 50% at 40°C.			
Rated pollution degree	According to EN 60529	Front panel: IP65		
		Rear panel: IP20		
Height	Max. 2000m			
•				



Do not use the device in locations subject to corrosive and flammable gases.

ELECTRICAL CHARACTERISTICS		
Supply	230V AC +10% -20%, 50/60Hz or 24V AC ±10%, 50/60Hz or optional 9-30V DC / 7-24V AC ±10% SMPS	
Power consumption	Max. 7VA	
Wiring	2.5mm² screw-terminal connections	
Date retention	EEPROM (Min. 10 years)	
EMC	EN 61326-1: 1997, A1: 1998, A2: 2001 (Performance criterion B for the EMC standard)	
Safety requirements	EN 61010-1: 2001 (pollution degree 2, overvoltage category II)	

INPUTS		
Counting inputs (INA, INB)	3 channels (5V to 30V pulses)	
Minimum On and Off times for pulses	40ms, 20ms, 10ms, 1ms, 0.5ms, 0.1ms, 50 s (selectable by programming)	
Sampling time	Adjustable between 0.2s and 16.0s.	
RESET and HOLD inputs	PNP: 5V to 30V pulse with adjustable pulse time between 2ms and 50ms.  NPN: GND terminal is connected to the RESET IN or HOLD IN terminal.	

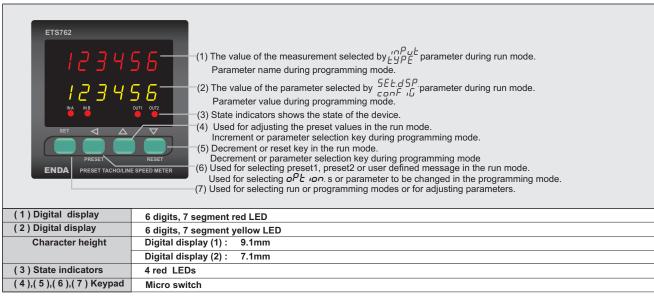
OUTPUTS		
Control output (OUT1)	Relay : 250V AC, 2A (for resistive load), NO+NC	
	Open collector output (S.S. OUT1): Max. 30V DC, 100mA.	
Control output (OUT2)	Relay: 250V AC, 2A (for resistive load), NO+NC	
	Open collector output (S.S. OUT2): Max. 30V DC, 100mA.	
Auxiliary power supply	12V DC, Max. 50mA (without regulation)	
Accuracy	±0.1%	
Life expectancy for relays	Mechanical 30.000.000 operation; Electrical 300.000 operation.	
Note: Polay and S.S.O.I.T. outputs are in synchronization. When O.I.T.1 relay is energized S.S. O.I.T.1 transistor goes into saturation		

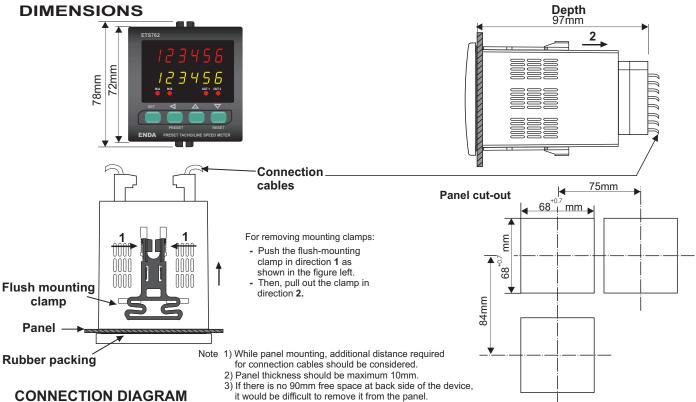
Relay and S.S.OUT outputs are in synchronization. When OUT1 relay is energized Similarly, when OUT2 relay is energized S.S. OUT2 transistor goes into saturation.

HOUSING		
Housing type	Suitable for flush-panel mounting according to DIN 43 700.	
Dimensions	W72xH72xD97mm	
Weight	Approx. 405g (after packing)	
Enclosure material	Self extinguishing plastics	
<b>A</b>		



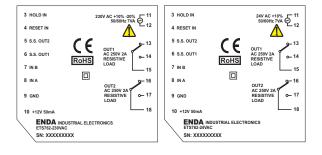
While cleaning the device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.

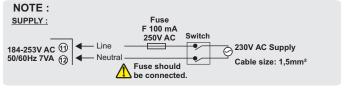






ENDA ETS762 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of the cables that are connected to the device must be free of energy. The device must be protected against inadmissible humidity, vibrations, severe soiling and make sure that the operation temperature is not exceeded. All input and output lines that are not connected to the supply network must be laid out as shielded and twisted cables. These cables should not be close to the power cables or components. The installation and electrical connections must be carried on by a qualified staff and must be according to the relevant locally applicable regulations.

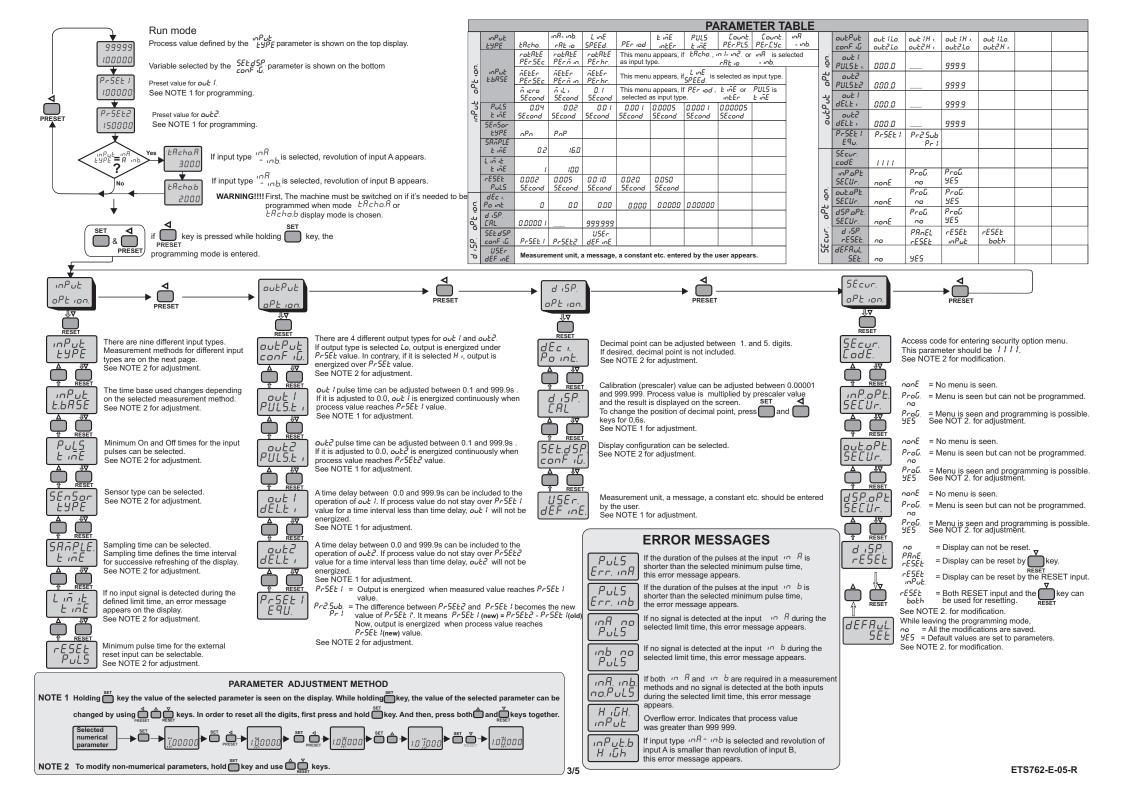


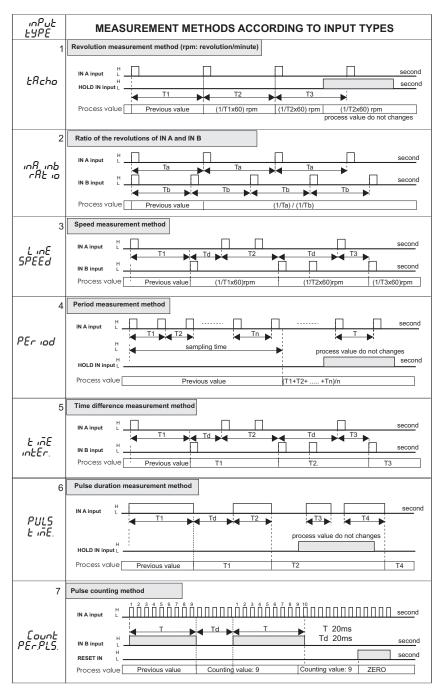


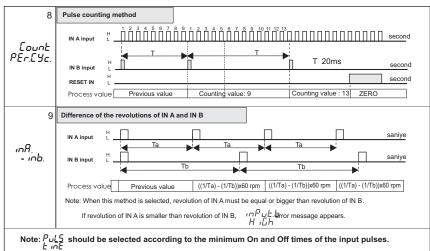
Note: 1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.

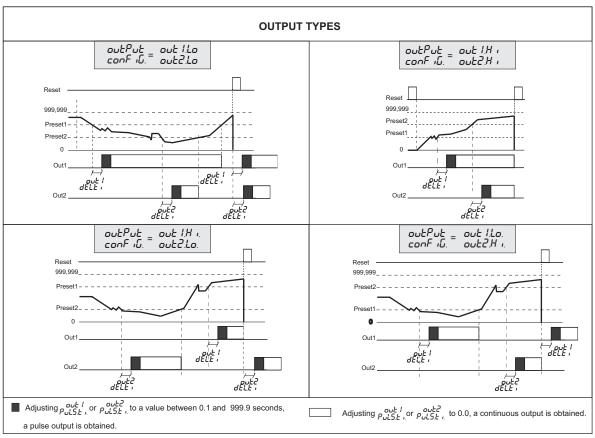
2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.





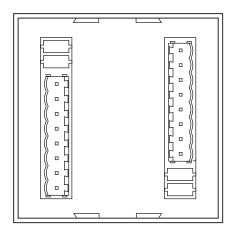




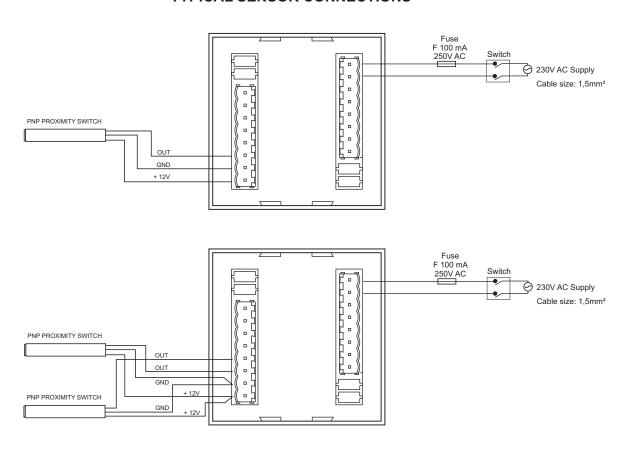


5 ETS762-E-05-R

## **TERMINAL CONNECTIONS**



## **TYPICAL SENSOR CONNECTIONS**



NOTE: NPN PROXIMITY SWITCH connection is the same as PNP PROXIMITY SWITCH connection.