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Tacho Drive Unit TC-1/ZN2

Measuring and control instrument for testing of tachographs





The Driving Unit - an independent measuring instrument (awarded calibration certificate), enables checking the mechanic and electronic vehicle tachographs in a range of readings and registration of the speed and the distance

The TC-1/ZN2 can be used as an individual mechanism and it can cooperate with Tachograph tester TC-1, which controls in automatic mode the trams and readings of the speed and the road of the Driving Unit.



The impulsive unit TC-1/ZN2 is placed in metal case and equipped with an electrical engine which is stabilized by a microprocessor, an LCD display, a multipurpose button, a signal socket which enables the connection with Tachograph tester TC-1 and a stabilized supplier +12/24V to supply the tachographs during their check-up. This instrument is supplied with alternate electric current 220-240V/50-60Hz. The ending of the driving shaft corresponds to the

standard flipper with thread M22x1,5.

Top features

- Works independently
- Equipped with light up display
- Enables fluent regulation of speed
- Enables fluent setup of the constant Sn from 500 to 2000 r.p.m.
- Supply Voltage 12 V, 24V, 1A





Front view:



- 1 Power supply switch
- 2 Power LED
- 3 Power supply terminal (negative)
- 4 Power supply terminal (12V positive)
- 5 Power supply terminal (24V positive)
- 6 Control socket
- 7 Multipurpose knob
- 8 Button
- 9 LCD display



Side view:



Rear view:



10 – Driving Shaft

- *11* Power supply connector
- 12 Fuse 1Ampere



METROLOGICAL TECHNICAL DATA:

Value of elementary scale:1 rev/kmRange of changes in linear vehicle velocity mechanism: for Sn= 500 rev/km:3,6250,0 km/hfor Sn= 500 rev/km:2,9250,0 km/hfor Sn= 625 rev/km:2,9250,0 km/hfor Sn=1000 rev/km:1,8250,0 km/hfor Sn=2000 rev/km:0,9125,0 km/hValue of elementary scale:0,1 km/hPermissible boundary error: for speed in range up to 20,0km/h:± 0,05 km/hfor speed in range up to 20,0km/h:± 0,25% normal valueRange measurement of Road length:0,00199999,999 kmValue of elementary scale:1 mPermissible boundary error:±1 mRange measurement of revolution's number:1999999999 revBest resolution:1 obrAccuracy:±1 obrTachograpch's Power supply :12V / 24VMaximum load of electric current:1,5AOperating temperature:0+50oCDimensions:265 x 230 x 150 mmWeipht:6 9kn	Range of changes constant "Sn": Value of elementary scale:	5002000 rev/km 1 rev/km
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Dimensions: 265 x 230 x 150 mm	Operating temperature:	0+50oC
Weight: 69kg	Dimensions:	265 x 230 x 150 mm
Weight. 0,7kg	Weight:	6,9kg
Power: requirements: 220V 50Hz	Power: requirements:	220V 50Hz
Power consumption: 120W	Power consumption:	120W



Instructions

Turn the Power supply switch (1) and the following message will be displayed on the LCD screen (Pict.4):





In this case the multipurpose knob (7) is able to control the contrast of the display. The active signal socket enables to operate the driving unit through Tachotester TC-1. Every information and measurements dealing with the movement of the driving shaft are displayed on the LCD screen while Tachotester TC-1 is working. You can only change the contrast of the screen:



Pict.5.

Pressing button (8) will stop the transmission through the signal socket. Then, driving unit switches to individual functioning. However, if the button is pressed longer than 0,8 sec., the setup options for constant "Sn" will start:



Pict.6



The value of the constant "Sn", within the range of 500 to 2000, can be set with the multipurpose knob (7). It is also possible to use the multipurpose button to be more accurate.



Pict.7

A short press of the button (8) (less than 0,8sec.) will cause the record in the memory of the constant "Sn" and pass to the set up of the driving shaft's speed. After turning the power supply on, a quick press of the button also leads to this. (pict. 4)





Multipurpose knob (7) sets up applicable speed of the driving shaft. The display will show the following values :

- Sn speed constant expressed in rev/km
- v- linear speed expressed in km/h
- n- number of revolutions expressed in rev.
- l- road length



Pict.9



The reset of the revolution and road length counter is caring out by a short press of the button (8). The counter proceeds independently and irrespective of the current speed of the driving shaft.



Pict.10

A long (over 0,8sec.) press of the button (8) stops the driver and leads back to the initial state of the instrument (after turning on) (pict.4). At the same time, the transmission with the Tachotester TC-1 is unblocked by the signal socket (6).



Pict.11

STORAGE AND PRESERVATION

It is necessary to keep the driving unit TC-1/ZN2 in a dry place where there is no dust or high temperatures and away from the sun rays. TC-1/ZN2 needs no special preservation except a regular cleaning. To clean the impulsive unit TC-1/ZN2 use only soft, little moist cloth to prevent any damage such as scratches on the display or flood of the instrument's inside.