INTEGRATED EQUIPMENT

TD-2

Monitoring and Protection System



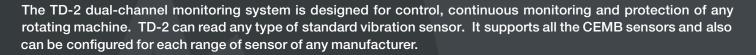












- TD-2 interfaces with a supervision system either through 4-20 mA outputs or with connectivity MODBUS TCP-IP
- TD-2 is designed to be connected to an ETHERNET network with others TD-2 or by the TDSP multi-channel system and to export the data for remote vibration analysis and machine status

Functions

- VIBRATIONS + KEY PHASOR
- AXIAL DISPLACEMENT
- ROTATION SPEED:

Zero Speed Overspeed Reverse rotation

- ECCENTRICITY
- BALANCING 1/2 PLANES

Extra software needed

Technical Specifications

- Power supply: 24 VDC - 400 mA max
- Installation:
 DIN rail or or IP65 die-cast aluminum case
- Dimensions:247mm x 105.3mm x 58.5mm

Weight: 800 g

Ambient conditions:

Temperatue: $-20^{\circ}\text{C} \div +70^{\circ}\text{C}$

Humidity: 95% non-condensing

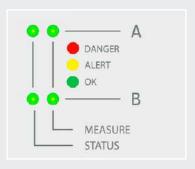
NEV





TD-2 INTEGRATED EQUIPMENT

LED INDICATORS FOR STATUS OF CHANNELS



- Threshold and alarms
- Diagnostics

PORTABLE INSTRUMENTS





N130

N600

Input signals replicated on the BNCs for vibration analysis using portable systems made by CEMB or third party manufacturers

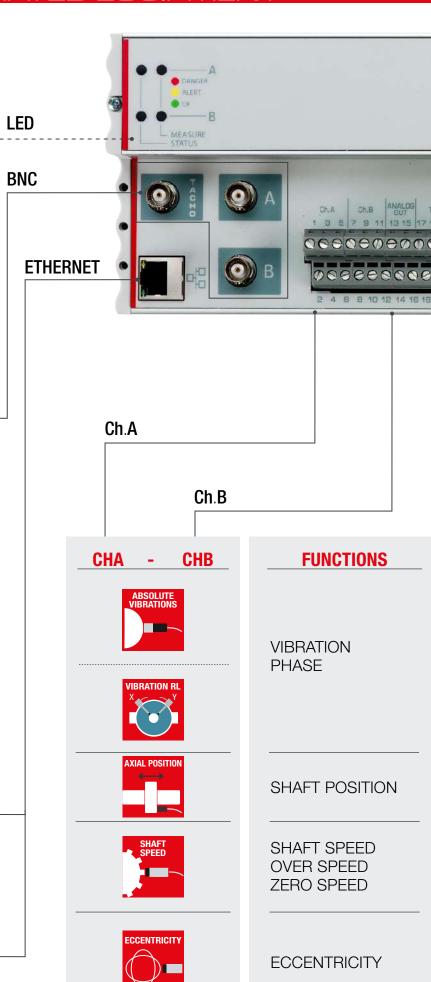
ETHERNET PORT FOR EXTERNAL COMMUNICATIONS

- System Congurations
- Data Export & Analysis
- Balancing



TCP/IP MODBUS







2X ANALOGUE OUTPUT





4-20mA configurable or 0-10V configurable

2X BINARY INPUT



- Trip multiplier
- Trip bypass

KEY-PHASOR

TYPE OF SENSOR

VELOCITY TRANSDUCERS VELOCIMETER ACCELEROMETER

PROXIMITORS

PROXIMITORS

PROXIMITORS HALL SENSOR

PROXIMITORS

SENSOR MODEL

T1-40 TV-22 TV-32 TA-18/S Third party sensors

T-NC/8 API
Third party sensors

T-NC/8 API T-NC/16/20/30 Third party sensors

T-NC/8 API T6-H T6-R Third party sensors

T-NC/8 API T-NC/16/20/30 Third party sensors

6X RELAY



Configurable relay

- NO/NC
- With/Without memory
- Setting time
- Triggering condition AND/OR

KEY-PHASOR



Proximitor or photocell



TECHNICAL DATA

ORDER INFORMATION:

A B C

A: FUNCTIONS

A1	Vibrations + Phase (with Key-Phasor)	
A2	Displacement and Expansion	
A4	Eccentricity	
A5	Zero speed / Reverse Rotation / Overspeed	

B: SENSOR TYPE

B1	Electrodynamic velocimeter	Only for A1
B2	IEPE accelerometer or velomitor	Only for A1
B3	Proximity (non contact) sensor	For all functions
B4	Electromagnetic sensor	Only for A5
B5	Hall effect sensor	Only for A5
B7	General 0-10V	Only for A2
B8	Digital sensor NPN	Only for A5
B9	Digital sensor PNP	Only for A5

C: OUTPUT TYPE

C1	4-20 mA
C2	0-10 V

OPTIONAL:

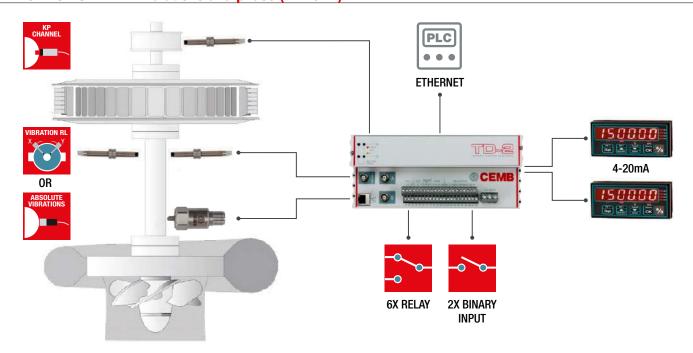
Junction Box IP65 (die-cast aluminum painted) Dimensions: 360mm x 160mm x 95mm

A TD-E / □

A: POWER SUPPLY

A: P	OWER SUPPLY
0	110/230 VAC - 50-60 Hz
1	24 Vdc
	3
	388

APPLICATION SAMPLE: vibrations and phase (TD-2/A1)





CEMB S.p.A. - Via Risorgimento, 9 23826 Mandello del Lario (LC) - Italy www.cemb.com



Vibration analysis division: Phone +39 0341 706111

e-mail: stm@cemb.com



Address: Unit 6, No. 52, Jouybar St. Tehran - 1415795361, IRAN Tel: +98-21-88996358-60 Fax: +98-21-88992367 www.cemb-iran.com

info@cemb-iran.com