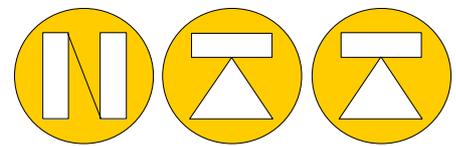


Digital transmitter TA5F

Data Sheet: TA5F R0208



NORDIC TRANSDUCER

4 Load cells



TA5 Flash transmitter makes simple and cheap the remote transmission of the value sampled from strain gauges load cells to PLC, PC, recorders, remote indicator etc...

The possibility of internally performing the parallel of the load cells (max. 4 of 350Ω or 8 of 700Ω) simplifies the system wiring because it does not require the use of any junction box.

Ideal to be employed in the modern systems of industrial weighing, control processes, dosing (silos and hoppers), internal and external automation, TA5 is available in two versions: with an hermetic case made of die-cast aluminium (IP65 protection class) or in a plastic case for the mounting on a DIN bar (suitable for control panels).

The digital transmitter TA5 Flash has a maxim resolution of 200000 divisions, is ideal for directly connecting the weighing structure to a remote control station (PC or PLC), the conversion high speed (up to 300Hz) makes it suitable also for application in real-time.

The transmitter is internally controlled by a microcontroller in Flash technology which first processes the data coming from the high-precision AD converter and then manages the serial communication. The transmitter can work as Slave (it transmits the value only on control station request) or as Master (it transmits the value continuously).

Through the serial output it is possible to set the transmitters parameters such as: the Full Scale, the measurement resolution, the filter, the system tare suppression, the input sensibility from 1mV to 3mV, etc..

The serial output is optoinsulated, it can be RS-232C or RS-485 multipoint (it allows the connection in a net up to 32 units at a max distance of 1200m); the passage from a system of communication to the other happens through dip-switch.

Thank to the Flash technology are possible software up-grade or software releases on specific of the customer also after the acquisition.

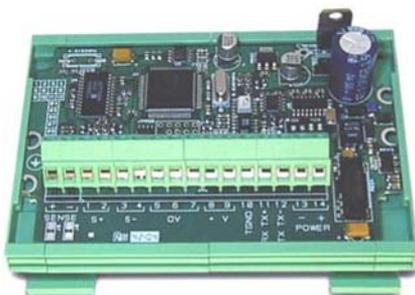
On request the transmitter can have the following features: Case for a 35mm DIN bar.

RS232C

RS485



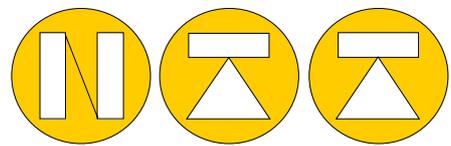
**RoHS
COMPLIANCE**



CASE FOR DIN BAR 35mm

DIMENSIONS (HxLxW): 82x144x 60 mm

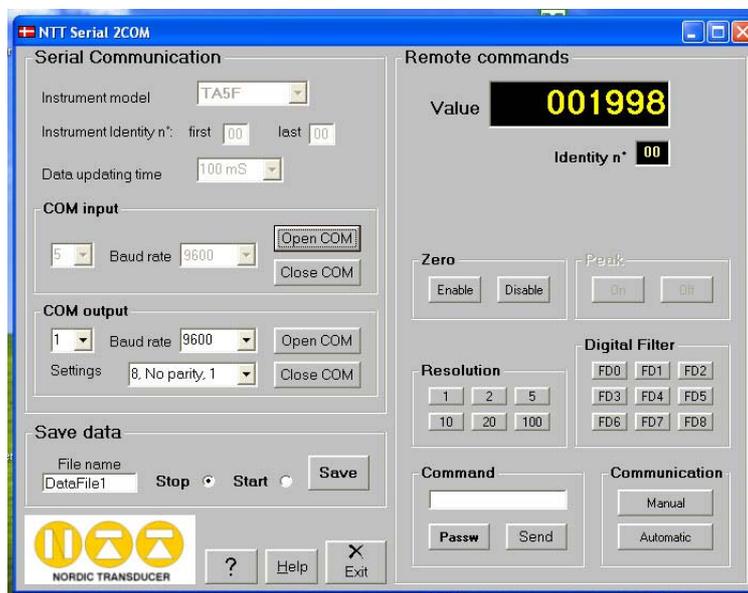
WEIGHT: 0.2kg



TECHNICAL DATA TA5F		
ACCURACY		≤ ± 0.02 %
LINEARITY ERROR		≤ ± 0.02 %
STANDARD INPUT SIGNAL		2 mV/V
INPUT IMPEDANCE		10 megaΩ
CONNECTABLE LOAD CELLS		4 (350Ω) or 8 (700Ω)
BRIDGE EXCITATION VOLTAGE		5Vdc ±4%
SERIAL OUTPUT		RS-232C, RS-485
COMMUNICATION SPEED		Max. 115200 Baud
STANDARD RESOLUTION (2mV/V)		-2000 +200000 div.
INTERNAL RESOLUTION		500000 div.
READING PER SEC. (filter 0)		300 (3.3ms)
NOMINAL WORKING TEMPERATURE		0.. +50°C
MAX WORKING TEMPERATURE		0.. +70°C
STORAGE TEMPERATURE		-20.. +85°C
TEMPERATURE EFFECT (10°C):		
a) on zero		≤ ± 0.01%
b) on full scale		≤ ± 0.01%
ZERO FUNCTION		100%
DIGITAL FILTER (programmable)		0, 1, 2, 3, 4, 5, 6, 7, 8
FULL SCALE (programmable)		50 -200000 div.
DECIMAL POINT (programmable)		Yes
RESOLUTION (programmable)		1, 2, 5, 10, 20, 50, 100
INPUT SENSIBILITY (programmable)		1-3mV (2mV standard)
POWER SUPPLY		11-26Vdc
SUPPLY CURRENT		max 180mA
EXTERNAL PROTECTION FUSE		Fast 315mA 250V
PROTECTION CLASS (EN 60529)		IP65
CASE		Aluminium
DIMENSIONS (HxLxW)		80x125x58 mm
WEIGHT		0.6kg

Options

Demo software for connection of the instrument to a PC complete with DATA LOGGER and transfer of measured values to a EXCEL file



Order Code:	Case	Input	Power Supply	Digital output
ETA5FlashIXD24S	Aluminium	IX=2mV/V	D24 = 24Vdc	S = Serial out
ETA5FlashDIXD24S	DIN bar	IX=2mV/V	D24 = 24Vdc	S = Serial out

In order to improve the technical performances of the product, the company reserves the right to make any changes to the instrument without notice.