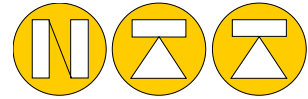




Current or Tension Transmitter 0.02% accuracy
4...20mA, +/-5VDC, +/-10V

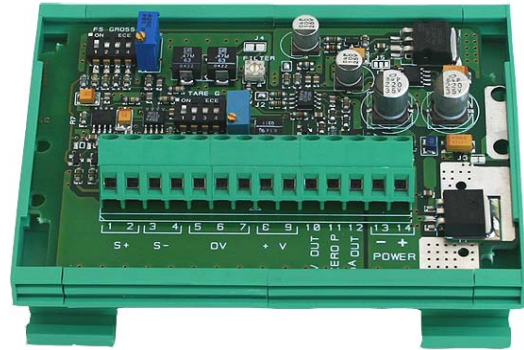
TA4/2 TA4D/2



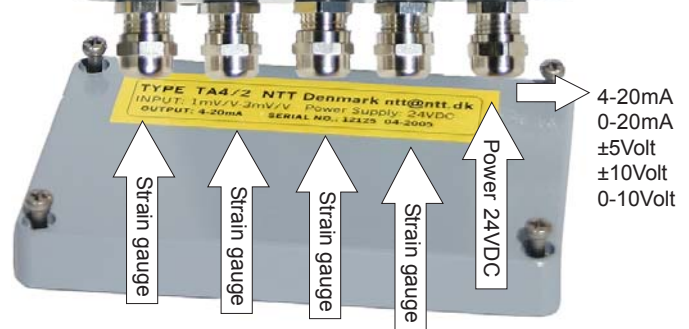
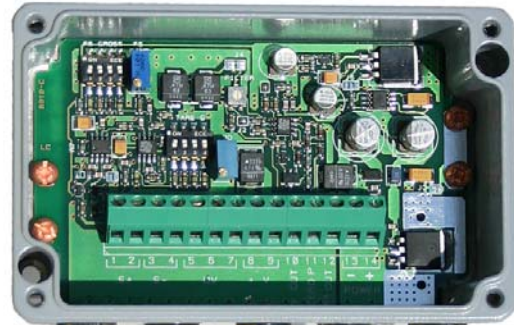
Nordic Transducer

TA4/2 transmitters make easy and cheap the remote transmission of strain gauge load cells analogue signals to PLC, PC, recorders, remote indicators etc... until to a distance of 40m. The possibility of internally connecting the load cells in parallel (max.6 of 350 ohm or 8 of 700 ohm) makes system wiring easier by avoiding the use of junction boxes. It is ideal to be used in the most advanced industrial weighing systems, processes control, dosing (silos and hoppers) and automation thanks to the two versions of its case: Hermetic box made of pressure die-cast aluminium (IP65 class) or plastic mount for mounting on a DIN guide (suitable for applications inside control panels) The transmitter feeds the load cells, amplifies and filters the returned signal with high-precision and long-term stability amplifiers; it is possible to internally perform all Zero and Full Scale calibrations through a dip switch for less accurate regulations and through a trimmer for precise regulations. In order to soften vibrations or mechanical unsteadiness present in the plant, the transmitter has an analog filter which can be adjusted by the operator. The TA4/2 transmitters offers two speed of response selectable by the user: the standard speed (2.5Hz 16.5Hz) is obtained with J4 closed and acting on the F trimmer, the Fast speed (1KHz) is obtained with J4 open. The analog output: 0÷20mA, 4÷20mA, ±5V, ±10V shall be indicated when order is placed. The immunity to the electromagnetic fields for the TAD/2 version is 3V/m.

TA4D/2 for DIN rail mounting



TA4/2 for IP65 box mounted



TA4/2 Technical Data:

Input signal	1...3mV/V
Input impedance	10 ¹⁰ ohm
load cells	6 x 350 ohm / 8 x 700 ohm
Linearity error	±0.02%
Temperature variation 10K:	
a) on zero	±0.01%
b) on full scale	±0.01%
Output Signal	4...20mA, +/-5V, 0-10V, +/-10V
Load resistor: current;	max. 470 ohm
Tension:	min. 3k ohm
Sensitivity	2µA
Power Supply:	16-26VDC
Max. electrical input:	200mA
Bridge power supply:	10Vdc ±4%
Adjustable full scale input	5...30mV
Adjustment coarse tare (offset)	70%
Adjustment fine zero	10%
Adjustment of fine full scale	10%
Adjustable filter	2.5Hz - 16.5Hz
Filter options:	1kHz
Working Temperature:	-10/+50°C
Protection class:	(EN60529) IP65
Weight:	0,580kg
Box made of casted aluminium	

Certified test of Electromagnetic Compatibility
 To References: EN 610-1, EN 61326-1, EN61326/A1, 89/336/CEE, 92/31CEE, 93/68/CEE, 73/23/CEE

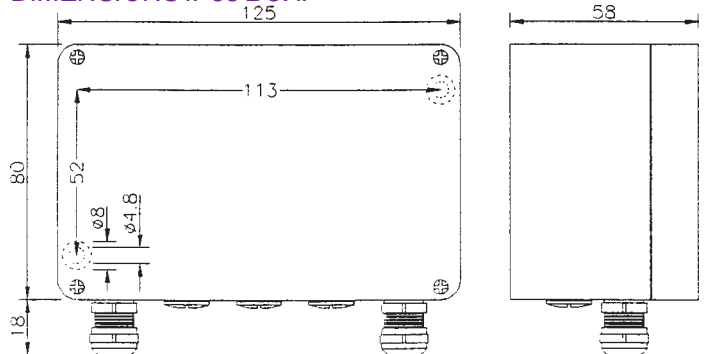
TA4/2 output types

(INPUT)	(OUTPUT)	(POWER)
Standard		
2mV/V*	4-20mA*	24VDC*
Options	+/-5V	12VDC*
	0-10V*	
	+/-10V	

* = in stock

(12VDC ±10% general power supply not possible with ±10V / 0-10V output signal)

DIMENSIONS IP65 BOX.



Standard 3 x PG7 connectors input !

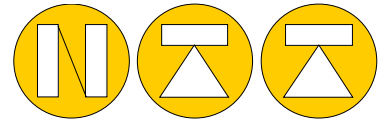
NORDISK TRANSDUCER TEKNIK DENMARK

Fax.: +45 98581866

http://www.ntt.dk E-mail: ntt@ntt.dk



TA4/2 / TA4D/2 Strain gauge Excitation module 4..20mA or +/-5VDC or +/-10VDC



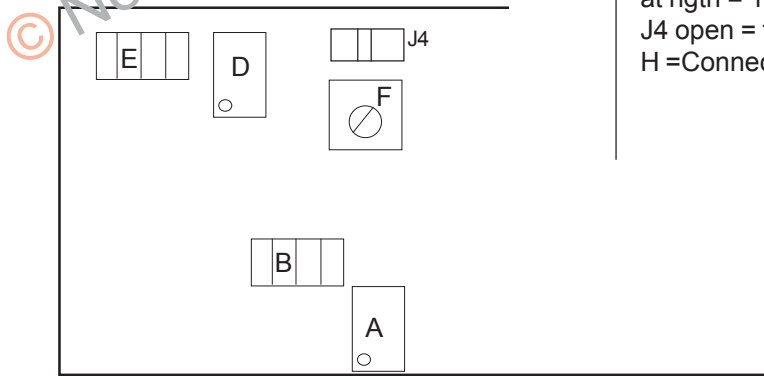
NORDIC TRANSDUCER

Technical data

Input signal	1...3mV/V
Input impedance	10 ¹⁰ ohm
load cells	6 x 350 ohm / 8 x 700 ohm
Linearity error	±0.02%
<i>Temperature variation 10K:</i>	
a) on zero	±0.01%
b) on full scale	±0.01%
Output Signal	4..20mA, or 0..5V, or +/-5V, or 0..10V
<i>Load resistor: current;</i>	max. 470 ohm
Tension min. 3k ohm	
Sensitivity	2µA

Power Supply:	16-26VDC
Max. electrical input:	200mA
Bridge power supply:	10Vdc ±4%
Adjustable full scale input	5...30mV
Adjustment coarse tare (offset)	70%
Adjustment fine zero	15%
Adjustment of fine full scale	10%
Adjustable filter	2.5Hz - 16.5Hz
Working Temperature:	-10/+50°C
Protection class:	(DIN40050) IP65
Weight:	0,580kg
Box made of casted aluminium	

A = Adjustment of fine zero +/-10%
 B = DIP Switches for fixed tare.
 D = Adjustment of fine Full Scale / Span +/-10%
 E = Adjustment of coarse Full Scale / Span
 F = Adjustment of analog filter, at left = 2.5Hz,
 at right = 16.5Hz, active with J4 closed = filter on.
 J4 open = fast response at 1 kHz
 H = Connect a F type fuse at 500mA on the feeding



1-2 S+ = +signal
from Load cell

3-4 S- = - signal
from Load cell

5-6-7 0V = 0 supply
to Load cell

8-9 + V = + 10VDC
supply to Load cells

10 11 12 13 14
14 = + 16-26VDC power supply

13 = minus Supply to board and also
minus for mA output or voltage output

12 = + mA output R.load max. 470 ohm

11 = A 10k Ohm Zero Potentiometer can be mounted here ! if an
external zero setting is wanted

10 = V output (only at TA4/2 Voltage type !)

Mount External fuse F 500mA



Cable connection

For the full correspondence to the elec-
tromagnetic compatibility, turn the protec-
tion to the internal off each cable shield
in a way that it results into a metal shield
contact with the box at the input of the
PG7 connector inside the box.

TARE (SW B)	
SW	%
1	7
2	15
3	28
4	28

FULL SCALE (SW E)			
INPUT	10V	+/-5V	4-20mA
mV	SW ON	SW ON	SW ON
30	OFF	OFF	OFF
20	1	1	1
15	2	2	2
10	1,3	1,3	1,3
5	1,4	1,4	1,4

Certified test of Electromagnetic Compatibility
 To References: EN 610-1, EN 61326-1, EN61326/A1,
 89/336/CEE, 92/31CEE, 93/68/CEE, 73/23/CEE

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