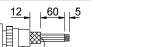


ANALOG TRANSMITTER **OPERATING MANUAL**







SUGGESTION

For the full correspondence to the electromagnetic compatibility, turn the screen inside each fairlead in order to have it in contact with the case connected to the line Earth.

Load cells

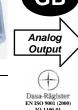




AB Hantverksvägen 15, 76493 Väddö - Sweden

Tel: +46176-208920, info@vetek.com, www.vetek.com





1-2 = SIGNAL+ (S+) 3-4 = SIGNAL- (S-) 5-6-7 = EXCITATION- (0V) 8-9 = EXCITATION + (+V)

10ΚΩ

₩

V OUT

ÆP.



CONNECTIONS: Feeding, Load cells, Analog output and Zero potentiometer

10 = OUTPUT Volt 11 = External ZERO potentiometer

12 = OUTPUT mA 13 = -POWER SUPPLY (0Vdc)

14 = +POWER SUPPLY (24 Vdc)

WARNING

connect a F type fuse by 500mA

feeding.

+ POWER - SUPPLY

witch **D**)

Output

4-20mA

OFF

DECLARATION OF CONFORMITY According to the ISO/IEC guide and EN 45014

Manufacturer: AEP transducers s.r.l.

Address: Via Bottego 33/A 41010 Cognento MODENA Italia DECLARES THAT THE FOLLOWING PRODUCT:

Device model: TA4/2

Device type: ANALOG TRANSMITTER

Options: this declaration covers all the options specified in the sales cataloque.

CONFORMS TO THE FOLLOWING NORMS: EN 61010-1 EN 61326-1 EN61326/A1

The product has been tasted in the typical installation configuration, as described in the

instruction manual.

Institution manage.

TA4D/Z model: the immunity to the electromagnetic fields is 3V/m.

Above described product meets the requirements of mentioned Norms, basing on both

test esult and considerations listed in the technical file.

I declare that above defined product meets the requirements of the: 89/336/CEE - 92/31/CEE - 93/68/CEE - 73/23/CEE.

41010 Cognento MODENA 07/07/2004



INTRODUCTION

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.4 of 350Ω or 8 of 700Ω) 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

Industrial weighting systems, processes control, dozing sites and hoppersy and autoritation trains to the two versions of its case: hermetic case made of pressure die-cast aluminium (IP65 class) or plastic case 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, transmitter has an analog filter which can be adjusted by the operator.

The TA4/2 transmitte 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.

INSTALLATION This indicator has been produced in conformity to the norms for the E.M.C. according to the Directive 89/336/CEE (and following changes). To respect them it is necessary to perform the electric

POSITIONING

The immunity to the electomagnetic fields for the TAD/2 version is 3V/m.

On request, transmitter can be equipped with:

Input signal : 1mV/V, 3 mV/V.
Case for a 35mm DIN bar.

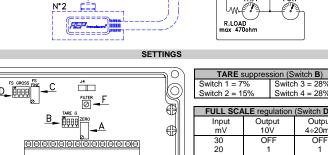
	ACCURACY CLASS LINEARITY ERROR	≤±0.02% ≤±0.02%
	INPUT SIGNAL INPUT IMPEDANCE Connectable LOAD CELLS	2mV/V 101°Ω 4 da 350Ω
	ANALOG OUTPUT CURRENT loading resistor TENSION loading resistor STD response speed FAST response speed	max.470Ω min.3KΩ 2.5÷16.5Hz 1KHz
	MAX WORKING TEMP. STORAGE TEMP.	-10 ÷ +50°C -20 ÷ +70°C
	10°C TEMP. VARIATION: - On Zero - On Full Scale	≤±0.01% ≤±0.01%
	ZERO POTENTIOMETER FULL SCALE adjustment FULL SCALE fine adjustment	10KΩ 5÷30mV +10%

connections according to what indicated in this manual.

ZERO adjustment	±70%
ZERO fine adjustment	±10%
POWER SYPPLY	16÷26Vdc
MAX ABSORPTION	200mA
LOAD CELLS FEEDING	10Vdc ±4%
PROTECTION (EN60529)	IP65
CASE	Alluminium
DIMENSIONS (HXLXP)	80x125x58
WEIGHT	~0.6kg
EXTERNAL FUSE (F type)	500mA 250V

ODTIONS:

OF HONS.	
INPUT SIGNAL	1mV, 3mV
ANALOG OUTPUT	±5V, ±10V
	0÷20mA
DIN bar case	DIN 35mm
DIMENSIONS (HXLXP)	82x144x42
WEIGHT	~0.2ka



2 2 15 10 1,3 1,3 Insert the switch combining them until you

 \bigcirc A = Fine Zero adjustment

B = Switch for fixed Tare suppression

C = Fine Full Scale adjustment D = Rough Full Scale adjustment J4 = Close = STD version (f=2.5÷16.5Hz)

= Analogue Filtrer adjustment J4 = Open = FAST version (f=1KHz)

get wanted result.

CALIBRATION PROCEDURE

The transmitter is supplied already calibrated according to the specifications, but depending on the system which is being realized, it is necessary to perform **ZERO** and **FULL SCALE** regulations.

ZERO regulations is necessary to deduct the system fixed tare and reset the amplified output signal to the initial values.

This regulation can be performed by acting on **B** dip switch and on **A** trimmer.

FULL SCALE regulations is performed by loading a sample weight on the system and by correcting the amplified output, we recommend to perform this operation with a weight not lower than 50% of system

This regulation can be performed by acting on **D** Dip Switch and **C** trimmer.

Analogue FILTER regulation is performed depending on possible amplified signal instabilities due to weighing system vibrations, for a further filtering, please rotate clockwise the F trimmer.

When filter increases, the transmitter response decreases; in the Fast version (f=1kHz), the filter is disabled.

TRANSPORT

This is an instrument made of electric components, in case of transport pack it carefully, pay attention to both shocks and humidity.

DELIVERY

Instrument is tested in any of its parts then configurated and calibrated

Connect the cables at terminals, feed the instrument

Cut off the power.

MAINTENANCE

Instrument does not require any periodic maintenance; occasionally remove contingent leavings of dirt with a air jet.

DISPOSAL

Cut off the power. Disconnect cables

Wrap instrument up either in a plastic package or in cardboard box.

Deliver the instrument to companies specialised in scrapping according to the laws in force.

TROUBLE SHOOTING

Instrument does not transmit the analogue signal, check power supply and internal fuse

DIIDCHASE CODE

FUNCTIAGE CODE									
	ETA4	Case	Input	Output	Power Supply				
		/=Alluminium	IX = 2mV	O4 = 4-20mA	D24				
		D = DIN		O5 = ±5V					
				O11 = ±10V					
				$\Omega_{20} = 0.20 \text{mA}$					

EPG7SET Pack with n° 3 metal fairleads.

