TRANSMITTER TA-USB

The transmitter TA-USB makes simple and economical the transmission of data coming from a transducer to a PC.

TA-USB has a maximum resolution of ±20.000 divisions and transmits the data directly on-line USB 2.0. It is a very simple but complete instrument as it is self powered directly from the USB line and is ideal for use in a laboratory as a generic acquisition system leaving to the software on PCs the characterization of the parameters to which the transducer is connected.

The transmitter is controlled by a microcontroller that processes the data sampled by a high resolution AD converter at a frequency of 30Hz and manages the USB communication.

The transmitter continuously transmits the value in divisions according to a protocol highly optimized and easy to implement. Through the USB line is possible to make the configuration of the transmitter parameters including:

• The Digital Filter: 0 .. 99
• Operating mode: Standard / Peak.
• Zero.

3 standard versions are available:

• Input for load cells and dynamometers (standard)
• Input for pressure transducers and transmitters. (option)
• Input for potentiometers (option)

The connection to transducers is achieved through a standard SUB-D 9-pin female connector.

SPECIFICATIONS

Power Supply :	Self Powered from Usb
Accuracy:	≤ ± 0.02 %
Linearity Error:	≤ ± 0.02 %
Standard Input Signal:	2 Mv/V
Connectable Load Cells:	4 (350ω) Or 8 (700ω)
Bridge Excitation Voltage:	3vdc ±4%
Connection System:	4 Wires
Serial Output:	Usb 2.0
Communication Speed:	19200 Baud
Standard Resolution (2mv/V):	± 20.000 Div.
Transducers Resolution (0-3v):	30000 Div.
Internal Resolution:	60000 Div.
Reading Per Sec.:	30 (33ms)
Max. Distance (Ta-Usb And Pc):	10m
Nominal Working Temp.:	0.. +50°C
Max working temperature:	0.. +70°C
Storage temperature:	-20.. +85°C
Temperature effect (10°c): A) on zero B) on full scale	≤ ± 0.01% ≤ ± 0.01%
Zero function:	100%
Digital filter (programmable):	from 0 to 99
Peak function:	Pos. and Neg.
Protection class (en 60529):	IP20
Case:	ABS
Dimensions (HxLxW):	20x90x40 mm
Weight:	~0.1kg

USB ←