

Option-U COND-USB

DIGITIZER FOR LOAD CELLS AND TORQUE METER

The options U-RS232, U-485 and U-USB convert the signal from a Wheatstone bridge (mV/V) in a standardized digital signal RS-232, RS-485 or USB.



Features

- o Very high resolution
- o Linearization of transducer signal available
- o High transmission speed
- o Internal or external mounting depending of the size of the transducer
- o When external : Rectangular box in aluminium (IP65)
- o Available options :
 - Temperature measurement with compensation of thermal drifts

Applications

The options U of SENSY are perfectly designed to the following applications

- Allow connecting transducers directly to a computer or a PLC
- Digital linearization and thermal compensation integrated in the transducer

Functions

- Scaling of output signal in measuring unit
- Easy connection to PC or PLC
- No need for additional power supply
- Scaling of input signal in measuring unit

Specifications	U-RS232	U-RS485	U-USB	
Power supply	5.6...12...18 VDC	5.6...12...18 VDC	4.25...5...5.5 VDC	-
Current consumption (max.)	60**	60**	75**	mA
Sensor excitation	5 VDC	5 VDC	5 VDC	-
Input range	0.5...2.5 mV/V	0.5...2.5 mV/V	0.5...2.5 mV/V	-
Impedance of Wheatstone bridge	320...5000	320...5000	80...5000	Ohm
Service temperature range	-40...+85	-40...+85	-40...+85	C
Linearity error	$\leq \pm 0.003$	$\leq \pm 0.003$	$\leq \pm 0.003$	% F.S.
Temperature coefficient of the sensitivity	$< + - 0.05$	$< + - 0.05$	$< + - 0.05$	% F.S./10 C
Temperature coefficient of zero signal	$< + - 0.01$	$< + - 0.01$	$< + - 0.01$	% F.S./10 C
Bandwidth	1...500	1...500	1...500	Hz
A/D converter	5000...66000 div.***	5000...66000 div.***	5000...200000 div.***	-
Baud rate	2,4...230 kbps	2,4...230 kbps	2,4...460,8 kbps	-

** : with Wheatstone bridge of 350.

*** : according to reading frequency

F.S.: full scale - Specifications subject to change without notice