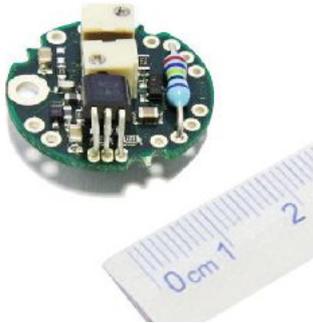


**OPTION-AO
J-C-C6-T**

**AMPLIFIED OUTPUT SIGNAL FOR LOAD-CELL AND TORQUE
METER**

The option converts the signal from the Wheatstone bridge (mV/V) in a robust industrial standardized 4 to 20 mA signal.



Features

- Internal or external mounting depending of the size of the transducer
- If external : Cylindrical housing in nickel plated brass or rectangular box in aluminium (low-cost version)
- Protection :
 - o If internal : see transducer
 - o Cylindrical housing : IP67
 - o Rectangular box : P65
- Available version with shifted zero for bidirectional utilization for versions 4..20 mA and 0..10 V.
- Version 2 wires : Protection against wrong cabling

Applications

The options C, J and T of SENSY are perfectly designed to the following applications

- Transmission of a weight measurement in an industrial site (4..20 mA)
- Acquisition of a force measurement in a PLC
- Transmission of a load measurement in the festoon of an overhead cranes (4..20 mA)

Functions

- Correspond to the standardized analogue input signal of PLC and industrial measuring systems
- 4..20 mA version: Allow a signal transmission up to 1,000 m with a good immunity to electromagnetic disturbance.

Specifications	J	C	C6	T (0...10V)	T (-10...0...+10V)	
Type	4-20mA	4-20mA	4-20mA (ATEX and/or IECEx and/or CSA)	0...10V	-10...0...+10V	-
Wiring	3	2	2	3	3	wires
Input range	0.5...2.5...5.5 mV/V	0.5...2.5...5.5 mV/V	0.5...2.5...5.5 mV/V	0.5...2.5...5.5 mV/V	0.5...2.5 mV/V	-
Impedance of Wheatstone bridge	350...5000	350...5000	1000...5000	350...5000	350...5000	Ohm
Sensor excitation	5VDC	0.5...2**	0.5...2**	5VDC	8VDC	-
Output signal	4...20 (24 max)	4...20 (24 max)	4...20 (24 max)	0...10 (11 max)	-10...0...+10 (11 max)	-
Load resistance	<= 1000	<= 750	<= 750	> 5000	> 10000	Ohm
Reference excitation voltage.	24 VDC	24 VDC	24 VDC	24 VDC	15 VDC*	-
Power supply	13...30	9...30	9...30	13...30	15...18*	-
Current consumption (max.)	<= 45	Same as the measured signal.	Same as the measured signal.	<= 23	<= 25	mA
Combined error	< ± 0.02	< ± 0.02	< ± 0.02	< ± 0.02	< ± 0.02	% F.S.
Bandwidth	0...1000	0...1000	0...1000	0...1000	0...1000	Hz
Reference temperature	23	23	23	23	23	C
Nominal temperature range	-10...+45	-10...+45	-10...+45	-10...+45	-10...+45	C
Service temperature range	-40...+85	-40...+85	-40...+85	-40...+85	-40...+85	C
Temperature coefficient of zero signal	< ± 0.025	< ± 0.05	< ± 0.05	< ± 0.025	< ± 0.025	% F.S./10 C
Temperature coefficient of the sensitivity	< ± 0.064	< ± 0.14	< ± 0.14	< ± 0.064	< ± 0.065	% F.S./10 C

* : 24VDC is acceptable if impedance of Wheatstone bridge >= 1000 Ohm

** : According of the impedance of Wheatstone bridge

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