

4-20 mA Amperometer, Simulator and Calibrator

HI 931002 is a portable instrument designed by the plant Repair and Maintenance Operator for the RMO! This portable simulator can monitor and regulate 4-20 mA from practically any process meter with or without a voltage generator. The communication bus from process instrumentation can be simulated in any of the following modes:

i) Passive Drive/Calibrator Mode:

HI 931002 can set the 4-20 mA current values and the user can then adjust the process meter accordingly.

ii) Active Drive/Simulator Mode:

HI 931002 simulates the correct current values as above in addition to providing power to the bus communication. Power is provided through an external adapter (included) which is connected to the simulator. This mode is ideal to calibrate chart recorders, pressure transducer or current indicators.

iii) Passive Measurement/Tester Mode:

HI 931002 practically becomes an Amperometer. It measures and displays the mA (or pH) values transmitted by the process meter.

iv) Active Measurement/Tester Mode:

Same as iii) above in addition to providing voltage to the 4-20 mA bus.

HI 931002 can measure incoming current, provide power and simulate 4-20 mA output to calibrate your process meter. A large LCD shows values on the display. You can select between drive and measurement modes through a switch on the front panel and two dials allow for quick adjustment of the current.

Ordering Information

HI 931002 is supplied complete with 1 m connection cable, battery, 12 Vdc power adapter and instructions.



Specifications

	HI 931002
Range	2.00 to 19.99 mA and -1.50 to 14.00 pH (active and passive drive mode); 0.00 to 19.99 mA and -3.50 to 14.00 pH (active and passive measuring mode)
Resolution	0.01 mA; 0.01 pH
Accuracy (@20°C/68°F)	±0.01 mA; ±0.01 pH
Input Resistance	20 Ω
Power Supply	1 x 9V battery; approx. 1600 hours of continuous use; or 12 Vdc power adapter (included)
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions	180 x 83 x 40 mm (7.1 x 3.3 x 1.6")
Weight	320 g (11.3 oz.)

Accessories

HI 7862/1	1 m (3.3') connection cable
HI 710005	115 Vac/12 Vdc power adapter
HI 710006	230 Vac/12 Vdc power adapter