

Universal Transmitter

Fully Programmable with Current Output, Voltage Output, and Two Relay Outputs

- Provides Loop Power for Two-wire, 4 to 20 mA Sensors and Transmitters
- Accepts mA, VDC, RTD, TC, Linear Resistance, and Potentiometer Inputs
- Delivers Current and Voltage Output Signals
- Offers Two Set Points with Form A Relay Outputs (2 amp AC, 1 amp DC)
- Fully Programmable via Detachable Pushbutton Display
- Operates from 19.2 to 300 VDC or 21.5 to 253 VAC power

Model 682A06 is a DIN rail mounted, general purpose, universal transmitter for monitoring, control, and alarm requirements. It accepts a variety of sensor input signals and provides excitation voltage for two-wire, loop-powered transmitters. This unit is especially well-suited for industrial machinery protection and vibration monitoring applications with IMI Sensors' Series 640 loop-powered, 4 to 20 mA vibration sensors.

The 682A06 operates as a blind transmitter and delivers VDC, isolated mA, and relay outputs; however, it may also be fitted with an optional display module (Model 070A80) in order to view measurement data.

The display module also offers pushbutton programmability of many set-up parameters, including: zero, span, set point threshold, set point hysteresis, and relay action time delay, as well as TC and RTD linearization. The unit also supports password protection for security purposes and memory retention of all set up parameters, to permit common setup of additional transmitters for quick deployment.

As with all IMI instrumentation, this equipment is complemented with toll-free applications assistance, 24-hour customer service, and is backed by a no-risk policy that guarantees satisfaction or your money refunded.



Model 682A06

Universal Transmitter shown with removable Model 070A80 Accessory Display



Specifications

Model		682A06
Performance		
Channels		1
Input Signal	(Current)	-1 to +25 mA
	(Programmable Ranges)	0 to +20 mA, +4 to +20 mA
Input Signal	(Voltage)	-0.020 to +12 VDC
	(Programmable Ranges)	0 to +1 VDC, +0.2 to +1 VDC, 0 to +5 VDC, +1 to +5 VDC, 0 to +10 VDC, +2 to +10 VDC
Input Signal	(Linear Resistance)	0 to 10,000 ohm
Input Signal	(Potentiometer)	10 to 100,000 ohm
Input Signal	(Pt100 RTD)	-328 to +1562 °F (-200 to +850 °C)
	(Ni100 RTD)	-76 to +482 °F (-60 to +250 °C)
Input Signal	(Type K TC) [1]	-292 to +2501 °F (-180 to 1372 °C)
Output Signal	(Current Range (span))	0 to +20 mA
	(Programmable Ranges)	0 to +20 mA, +20 to 0 mA, +4 to +20 mA, +20 to +4 mA
Output Signal	(Voltage Range)	0 to +10 VDC
	(Programmable Ranges)	0 to +1 VDC, +1 to 0 VDC, +0.2 to +1 VDC, +1 to +0.2 VDC, 0 to +5 VDC, +5 to 0 VDC, +1 to +5 VDC, +5 to +1 VDC, 0 to +10 VDC, +10 to 0 VDC, +2 to +10 VDC, +10 to +2 VDC
Output Relays	(2 Provided)	Form A type with 250 V rms, 2 amp AC or 1 amp DC capacity
Relay Function	(Programmable)	Setpoint, Window, Sensor Error, Power ON, Power OFF
Relay Time Delay	(Programmable)	0 to 3600 sec
Relay Hysteresis	(Programmable)	0.1 to 25 % of selected span
Display	(Accessory Model 070A80)	4 digits
Environmental		
Temperature Range	(Operating)	-4 to +140 °F (-20 to +60 °C)
Humidity Range	(Non-condensing)	<95%
Enclosure Rating	(Housing / Terminals)	IP50 / IP20
Electrical		
Power Required		21.6 to 253 VAC, 50 to 60 Hz or +19.2 to +300 VDC
Excitation Power	(for Loop Powered Device)	16 to 20 VDC (0 to 20 mA)
Physical		
Mounting		DIN rail
Size (approximate)	(H x W x D)	4.3 x 0.9 x 4.1 in (109 x 23.5 x 104 mm)
	(With Attached 070A80 Display)	4.3 x 0.9 x 4.6 in (109 x 23.5 x 116 mm)
Weight		170 gm (185 gm with Model 070A80)
Notes		
[1] Contact factory for details about other thermocouple types		



Model 682A06
Universal Transmitter

Shown with attached Model 070A80 Accessory Display

Dimensions shown are in inches (millimeters)



3425 Walden Avenue, Depew, NY 14043-2495 USA

IMI Sensors Division toll free 800-959-4464

24-hour SensorLineSM 716-684-0003

Fax 716-684-3823 E-mail imi@pcb.com

Web site www.imi-sensors.com

ISO 9001:2000 CERTIFIED

A2LA ACCREDITED to ISO 17025

© 2006 PCB Group, Inc. In the interest of constant product improvement, specifications are subject to change without notice.
PCB, IMI with associated logo, ICP, Swiveler, and Spindler are registered trademarks of PCB Group, Inc.
SensorLine is a service mark of PCB Group, Inc. All other trademarks are properties of their respective owners.

IMI-682A06-0306

Printed in U.S.A.

The IMI Sensors Division of PCB® Piezotronics, Inc. specializes in the development, application, and support of industrial vibration sensors, transmitters, meters, and accessories for machinery condition monitoring and predictive maintenance requirements. This product focus, coupled with the strengths and resources of PCB, permits the IMI Sensors Division to offer exceptional customer service, 24-hour technical assistance, and a **Total Customer Satisfaction** guarantee.

Visit www.imi-sensors.com to locate
your nearest sales office