Mold cavity pressure and temperature measurement amplifier MIS-202-PT/PP

2024/02/28

Features

■A special conversion module of 8-channels (32 channels at the maximum) input that measures the mold cavity pressure and temperature of the injection molding machine simultaneously..

■Attach the relay box MIS-304-P/MIS-304-T (4 channels input) that is convenient for wiring between the amplifier and the sensor built into the metal mold of the injection molding machine.

* The relay cable FA409-548-*M / FA409-549-*M as an option is required to use MIS-304-P/MIS-304-T.

■The pressure/temperature value is watched on the condition set beforehand, and the result is output as an alarm signal. And forward the pressure value waveform converted into the analog voltage to the molding machine.

■The real time waveform of the pressure/temperature value is displayed, stored, read out, analyzed, and set variously by using the attached application software of a personal computer.

■CE mark applicable product

Specification

Specification name	Specification contents
Bridge power supply	5VDC±0.25 VDC within 20 mA per 1 channel
Applicable pressure sensor	LSMSB-5K～3T/LSMS-20K～3T-S06 (350 Ω, 1 unit/channel)
Numbers of input points for pressure sensor	4 channels
Conversion accuracy of Pressure senso	±1.0 %F.S.
Applicable temperature sensor	K type thermo couple MMTK-01

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temperature sensor	
Numbers of input points fortemperature sensor	4 channels
Conversion accuracy of temperature senso	±1.0 %F.S. ±0.2 %F.S. （at 25℃±5℃）
Measurement time	120 seconds at the maximum, 1800 seconds or less in the long-time measurement.
Sampling interval	10 ms per 1 channel (Changeable to 0.5 ms, 1 ms, 2 ms, 5 ms, 20 ms and 50 ms.) * Limited to 10 ms, 20 ms and 50 ms in the long-time measurement.
A/D Internal resolution	16 bit
Analog voltage output	0 VDC ~ 10 VDC
Measurement condition	Set of sensors, measurement time, start trigger input delay time, and protruding detecting time.
Alarm function	Area monitoring frame judgement, Peak monitoring frame judgement, Monitoring of t second later, Peak arrival time monitoring, Integral value monitoring, Peak arrival integral value monitoring
USB interface	USB connector (Personal computer side): USB mini-B type USB connector (USB flush drive): USB-A type
Display function	Real time waveform display, Waveform display that has been aquired, Trend display (Peak, Integral, Protruding), Selection of display channel, Alarm monitoring fram display, Display of measurement history, Event log, Continuance condition inspection
Power supply voltage	24 VDC (Available valiable range 20.4 VDC ~ 27.6 VDC)
Power consumption	16.5 W or less (at 24 VDC)
Operating temp. range	-10℃ ~ 60℃
Operating humidity range	85 %RH (Non condensing)
Stored temp. range	-20℃ ~ 60℃
Vibration resistance	10 Hz ~ 150 Hz、Acceleration 2 G constantly for 2 hours of each X, Y, Z direction.
Outline dimensions (WxHxD)	257 mm x 116.2 mm x 48.6 mm (Excludes protruding parts)
Weight	Approx. 900 g
Mounting method	Amplifier: with the magnet on a metalic side. Relay box: with the magnet on a metalic side or with the screw.
Accessories	Power plug,Modbus plug,Control I/O plug,CD-ROM,USB cable, Instruction manual

Options

Load cellr LSMSB-5K～3T/LSMS-20K～3T-S06

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Temperature sensor MMTK-01
Relay box MIS-304-P/ MIS-304-T
Relay cable FA409-548-*M/FA409-549-*M
Power supply cable 2.5m (FA409-550)
Control I/O cable 2.5m (FA409-551)
Judgement I/O cable 2.5m (FA409-552)
Voltage output cable 2.5m (FA409-553)
Cable for additional channel 1.0m (FA409-554)
Cable for Modbus interface 1.0m (FA409-555)