### Honeywell

### **Model SC500**

### 프로그래밍 가능한 단일 채널 변환기 표시기/컨디셔너



#### **DESCRIPTION**

SC 시리즈 모델은 sig mod가 장착된 변환기와 함께 사용할 때자체 교정 마이크로프로세서 기반 변환기 신호 조절기입니다. 표시기는 여러 유형의 입력 채널 및 출력 채널에서 사용할 수 있습니다. 시그니처 교정 모듈이 설치된 증폭되지 않은 스트레인 게이지 변환기와 함께 사용하는 경우 이러한 기기는 0, 스팬, 소수점 및 공학 단위를 자동으로 완전히 자체 교정합니다.

입력 채널은 다양한 변환기에 사용할 수 있습니다. 각 입력 채널에는 여기 전원 공급 장치와 절연 전압(옵션) 또는 절연 전류 아날로그 출력(옵션)이 포함됩니다.

물리적 입력 및 출력 채널 외에도 최대 3개의 가상 채널을 구성하여 많은 잠재적 애플리케이션을 지원할 수 있습니다.

- Unamplified pressure or load
- Pressure or load with internal voltage amplifiers
- Pressure or load with internal or external two-wire current amplifiers
- ac/ac displacement transducer
- dc/dc displacement transducer

Available output channels for the SC500 include:

- Contact relays for the two form C or three form A optional limits
- Isolated digital-to-analog voltage (±5 Vdc or 0 Vdc to 10 Vdc)

#### **FEATURES**

- 변환기 입력 선택
- 소형 1/8 DIN 폼 팩터
- 자동 설정, 신호 교정을 통한 교정
- 션트 교정, mV/V 또는 알려진 부하 교정
- 피크/밸리 캡처
- 옵션 아날로그 출력 및 RS-232/RS-485
- 필드 선택 가능한 주파수 응답(최대 250Hz) 및 교정
- 최대 3개의 가상 채널(옵션)
- CE 승인

### **Model SC500**

#### **PHYSICAL SPECIFICATIONS**

Characteristic	Measure
Form factor	1/8 DIN
Case material	Aluminum

#### **ENVIRONMENTAL SPECIFICATIONS**

Characteristic	Measure	
Temperature, operating	5 °C to 40 °C [40 °F to 105 °F]	
Temperature, storage	-30 °C to 90 °C [-40 °F to 195 °F]	

#### **DISPLAY SPECIFICATIONS**

Characteristic	Measure
Display type	Vacuum fluorescent
Numeric display format	+999999 to -999999 (0, 1, 2, 3, 4, 5 decimal places)
Digit size, normal mode (H x W)	5 mm x 2,5 mm [0.2 in x 0.1 in] (with engineering units)
Digit size, large mode (H x W)	10 mm x 5 mm [0.4 in x 0.2 in] (no engineering units)
Engineering units display	4 characters, available in normal mode only
Display update per second	4

#### **POWER SPECIFICATIONS**

Characteristic	Measure
Power supply type	ac (with included wall-mount adapter) or dc
dc power supply requirements	10 Vdc to 26 Vdc @ 1 A
ac wall-mount adapter (included)	Interchangeable plugs for use in the Americas, Europe, the United Kingdom and Australia (100 Vac to 240 Vac)

#### **ANALOG OUTPUT (OPTIONAL) SPECIFICATIONS**

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Characteristic	Measure		
Voltage range	5 Vdc, ±5 Vdc, 10 Vdc or ±10 Vdc (field selectable)		
Isolation	500 V		
Digital-to-analog resolution	15 bits		
Frequency response	Same as input		

#### **COMMUNICATIONS OUTPUT (OPTIONAL) SPECIFICATIONS**

Characteristic	Measure	
Serial setup and output	Isolated RS-232 or RS-485 (factory option)	
Max. baud rate	38400 Baud	

#### **LIMITS OUTPUT (OPTIONAL) SPECIFICATIONS**

Characteristic	Measure
Quantity	2 Form C or 3 Form A (factory option)
Response time	Same as input
Relay energized when signal is	less than, greater than, inside or outside set points
Contact ratings	1 A @ 30 Vdc, 0.5 A @ 50 Vac

Not RoHS compliant

#### **OPTION CODES**

	Many range/option combinations are available in our quick-ship and fast-track manufacture programs. Please see http://sensing.honeywell.com/TMsensor-ship for updated listings.		
Output options	53a. RS-232 (not available with 53d) 53d. RS-485 (not available with 53a) 58a. Two limit set-points with form C contact relays (not available with 58h) 58h. Three limit set-points with form A contact relays (not available with 58a) 58i. Isolated digital-to-analog (DAC) voltage		

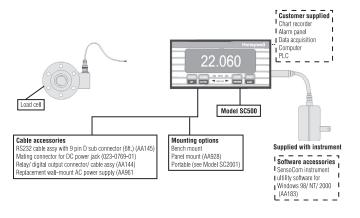
### Programmable Single-Channel Transducer Indicator/Conditioner

#### MOUNTING DIMENSIONS AND CHARACTERISTICS

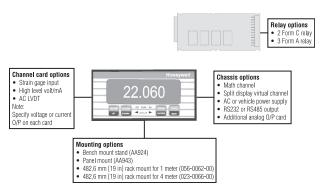
# 118 mm [4.66 in] — 96 mm [3.78 in] — 90 mm [3.55 in] — 44 mm [1.72 in] — 48 mm [1.72 in] — 106 mm [3.78 in] — 48 mm [1.72 in] — 106 mm [3.78 in] — 106 mm [3.16 in] —

For reference only

#### TYPICAL SYSTEM DIAGRAM



#### FLEXIBLE AND EXPANDABLE PLATFORM



#### **INPUT**

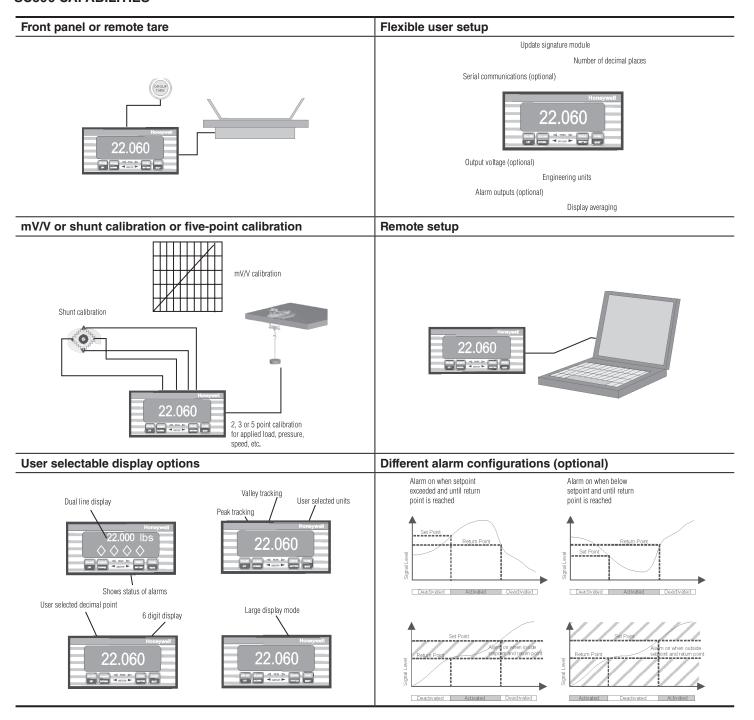
	Strain gage millivolts	High level volts/mA	ac/ac dis- placement transducer	
Order code	AE236	AE237	AE238	
Transducer type	Unamplified pressure or load	Amplified pres- sure or load, dc/ dc displace- ment transducer	Displacement transducer	
Range	0.5 mV/V to 21 mV/V	±5 Vdc or ±10 Vdc, 4 mA to 20 mA	0.1 VRMS to 15 VRMS	
Frequency response and resolution	See table below	See table below	See table below	
Calibration type (field selectable)  Shunt, mV/V, 2-, 3-, or 5-point known load		Shunt, 2-, 3-, or 5-point known load	2-, 3-, or 5-point known load	
Transducer excitation	5 Vdc @ 60 mA max.	12 Vdc, ±15 Vdc, 28 Vdc	3 Vac @ 5 kHz	
Push button 100 % tare	Yes	Yes	Yes	
Push button shunt test	Yes	Yes	No	

Resolution (counts) (not including min. 10 % overrange/underrange capability)

Frequency response (Hz) field selectable	Step response (ms) typi- cal	Strain gage	High level	ac/ac dis- placement transducer
2 (fast mode)	40	±50000	±50000	±25000
2	440	±50000	±50000	±25000
8	110	±25000	±25000	±15000
16	55	±20000	±25000	±10000
32	28	±10000	±20000	±10000
50	16	±5000	±15000	±5000
100	8	±5000	±10000	±5000
250	3	±2000	±10000	±2000

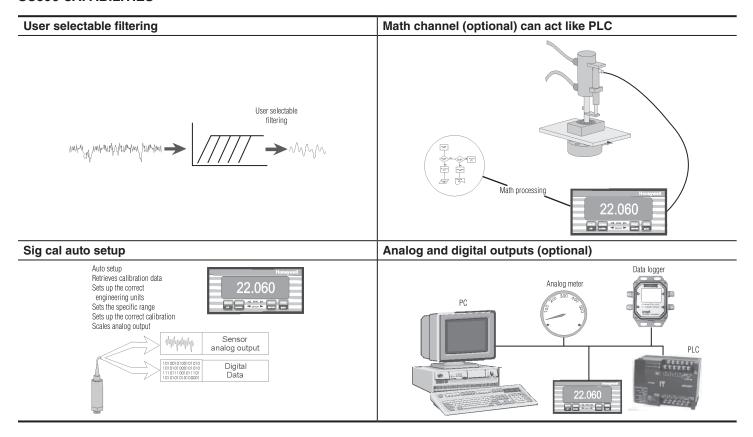
### **Model SC500**

#### **SC500 CAPABILITIES**



### Programmable Single-Channel Transducer Indicator/Conditioner

#### **SC500 CAPABILITIES**



#### Model SC500

## Programmable Single-Channel Transducer Indicator/Conditioner

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847 Email inquiries to info.sc@honeywell.com

### A WARNING PERSONAL INJURY

 DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

### WARNING MISUSE OF DOCUMENTATION

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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