

E-680 SERIES

UNIVERSAL DATA LOGGERS / SCANNERS



DESCRIPTION

E-680 Series universal data loggers/scanners are advanced new generation micro-controller based industrial instruments. Dimensions are 96 x192 mm, conforming to IEC/TR 60668. The universal inputs and outputs of the device can be easily programmed by the user.

E-680 Series indicate measurements from 32 different points on the instruments display and determines alarm conditions. It can be directed to the common alarm relays and/or to the independent relays. It can also be connected to a PC via RS485 communication line and data can be collected and stored.

MAIN FEATURES

- High reading sensitivity with 16 bit resolution
- Infinite life time and high isolation voltage semiconductor multiplexer relay
- Standard RS485 MODBUS communication interface
- 2 common alarm relay outputs
- Optional current output
- Each channel can be programmed independently
- 2 set points for each channel with adjustable dead band
- Directing alarm states to a common or independent relay
- Programmable display and scan intervals
- Possibility of connecting up to 31 instruments to a PC by the same communication line
- Distributed system structure

TECHNICAL SPECIFICATIONS

Accuracy Class	0.5
Display Resolution	1/9999
Display	9 Digit LED (14 mm)
A/D Conversion	16 bit
D/A Conversion	12 bit
Input Scan Time	0.2-9.9 second / channel
Display Scan Time	1-99 second / channel
Noise Suppression	120 dB 50 Hz
Operating Temperature	-10 ... 55°C
Temperature Comp.	0 ... 50°C
Set Adjustment	Between set point limits
Control Form	Low (LO) or High (HI)
Dead Band (Hysteresis)	0-9999 EU*
Power Supply	85-265 V AC / 85-375 V DC 20-60 V AC / 20-85 V DC
Power Consumption	Max. 7 W
Relay Output	NA Contact 250 V AC 5 A
Input Signal	T/C, R/T, mA, mV, V
Sensors	Thermocouple Resistance thermometer Others = Standard and nonstandard transmitters and converters
Memory	EEPROM max. 10 ⁵ writing
Weight	650 gr



- This controller complies with the European Low Voltage Directive 2006/95/EC, by the application of safety standard TS EN 61010-1. (Pollution degree 2)
- This controller complies with the EMC Directive 2004/108/EC by the application of EMC standard TS EN 61326.

* (EU) °C or °F for the thermocouples and resistance thermometer inputs, for the linear inputs, same with the unit which is controlled.

STANDARD WORKING LIMITS

Inputs	Type	Min.	Max.
Cu-Const	Type-U*	-200°C	600°C
Cu-Const	Type-T	-200°C	400°C
Fe-Const	Type-L*	-200°C	850°C
Fe-Const	Type-J	-200°C	1100°C
NiCr-Ni	Type-K	-200°C	1300°C
Cr-Const	Type-E	-200°C	1000°C
Nicrosil-Nisil	Type-N	-200°C	1200°C

Inputs	Type	Min.	Max.
Pt%10Rh-Pt	Type-S	0°C	1760°C
Pt%13Rh-Pt	Type-R	0°C	1760°C
Pt%18Rh-Pt	Type-B	60°C	1800°C
Pt-100	$\alpha=0.385$	-200°C	840°C
mV	0-1000 mV	-1999 unit	9999 unit
mA	0-20/4-20 mA	-1999 unit	9999 unit
V	0-10 V	-1999 unit	9999 unit
CUST	upon your request (R/T)		

ORDERING GUIDE

E-680 Series Universal Data Loggers / Scanners

E-680 - UU - V - W - XX - Y - Z

Number of Inputs Channels

8 inputs	08
16 inputs	16
32 inputs	32

* If the instrument is ordered as 32 channels, independent relay output option is not available.

Common Relay Outputs

None	0
1 relay (1xNO-0)	1
2 relay (2xNO-0)	2

Analog Output

None	0
1 Re-transmission output 4-20 mA (isolated)	1
2 Re-transmission outputs 4-20 mA (isolated)	2

Independent Relay Outputs

None	00
8 independent relay (1xNO-0)	08
16 independent relay (1xNO-0)	16

* Independent relay outputs shall be maximum 16 pieces.

Communication

None	0
RS485 Modbus	1

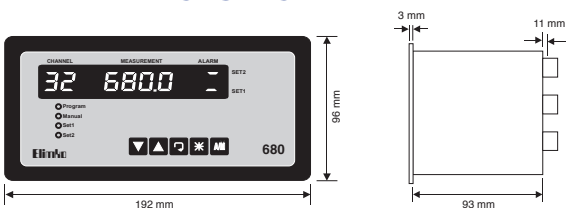
Power Supply

85-265 V AC / 85-375 V DC	0
20-60 V AC / 20-85 V DC	1

Sample

E-680-08-2-0-16-1-0	8 channels, 2 common relays, 16 independent relays, RS485 Modbus, 220 V AC.
E-680-16-2-0-16-0-0	16 channels, 2 common relays, 16 independent relays, 220 V AC.
E-680-32-2-1-00-1-1	32 channels, 2 common relays, 1 re-transmission output, RS485 Modbus, 24 V DC.

DIMENSIONS



Panel cut-out = 90 x 185 mm

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