E-PR-110 SERIES
PAPERLESS RECORDERS AND CONTROLLERS

■ DESCRIPTION

E-PR-110 series paperless recorders and controllers are designed using new generation micro controllers. Unit dimensions are 144 mm x 144 mm. E-PR-110 series records are the touch screen paperless recorders with the configurable 3, 6, 9, 12, 15, 18, 21 and 24 chanel universal inputs, 12 relay outputs, 64 digital inputs/outputs with plug&play I/O cards and the most user freindly.

E-PR-110 series paperless recorders are used at different fields of industry such as iron and stell, power plants, chemical and petro chemical refineries, glass, food, cement and others to record and data storage application of temperature, pressure, level, flow, current, voltage etc.

E-PR-110 series are multifunctional recorders with RS-485 and ethernet communication facilities, math functions, Wi-Fi facilities, 1 USB port and high internal data storage capacity.

• 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.

■ TECHNICAL SPECIFICATIONS

Accuracy Class	0.5
Display	5.7" TFT display, 640×480 resolution, 18 bit color, touchscreen
Relay Output	SPST-NO; 250 V AC, 5 A
Relay Outputs Numbers	Max. 12 relay output (depends on configuration)
Analog Digital Converter	16 bit (isolated)
Analog Input Numbers	Max. 24 analog input (depends on configuration)
Input Signal	TC (B, E, J,K, L, N, R, S, T, U), RT (Pt-50, Pt-100, Pt-500, Pt-1000, Ni-100, Ni-200, Ni-500, Ni-1000), 0/20 mA, 4/20 mA, -2000 mV/2000 mV, 0/10 V
Digital Input Numbers	Max. 64 digital input (depends on configuration)
Digital Output Numbers	Max. 64 digital output (depends on configuration)
Power Consumption	30 W max.
Sampling Rate	100 ms (for all channels)
Security	Security code for 5 users
Protection Class	IP65 front panel, IP20 rear panel
Operating Temperature	-10°C ... 50°C
Data Storage	8 GB Micro SD Flash Internal
Power Supply	85-265 V AC; 50-60 Hz / 85-375 V DC
Communication	10-100 Mbit Ethernet, RS-485, 1 USB Host
Weight	1,6 kg

■ ORDERING GUIDE

E-PR-110 Series Paperless Recorders and Controllers   E-PR-110 - S1 - S2 - S3 - S4 - Y- Z

Standard Features

    Programmable universal inputs
    Internal 8 GB Micro SD
    RS-485 Modbus RTU, Ethernet, 1 USB host
    PID control
    Mathematical function channels.
    PC software programme

S1

None	0
3 universal inputs (TC, RTD, I, V, mV)	1
6 universal inputs (TC, RTD, I, V, mV)	2
6 relay outputs	3
16 digital inputs	4
16 digital outputs	5
4 analog outputs (0-20 mA, 0-10 V DC configurable)	6

S2

None	0
3 universal inputs (TC, RTD, I, V, mV)	1
6 universal inputs (TC, RTD, I, V, mV)	2
6 relay outputs	3
16 digital inputs	4
16 digital outputs	5
4 analog outputs (0-20 mA, 0-10 V DC configurable)	6

S3

None	0
3 universal inputs (TC, RTD, I, V, mV)	1
6 universal inputs (TC, RTD, I, V, mV)	2
6 relay outputs	3
16 digital inputs	4
16 digital outputs	5
4 analog outputs (0-20 mA, 0-10 V DC configurable)	6

S4

None	0
3 universal inputs (TC, RTD, I, V, mV)	1
6 universal inputs (TC, RTD, I, V, mV)	2
6 relay outputs	3
16 digital inputs	4
16 digital outputs	5
4 analog outputs (0-20 mA, 0-10 V DC configurable)	6

Wi-Fi

None	0
Available (802.11 bgn 2.4 GHz)	1

Power Supply

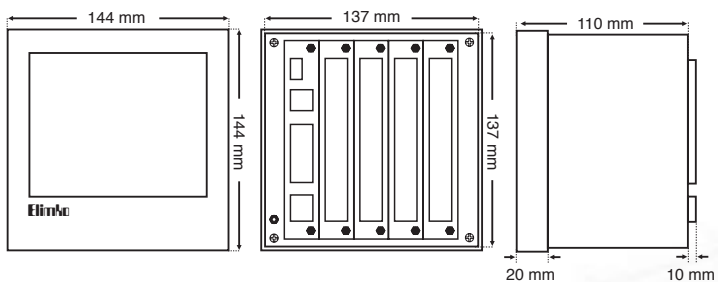|	
85-265 V AC; 50-60 Hz / 85-375 V DC	0

NOTE:

- The I / O Alternatives above apply to all SLOTs.
- Within the limits of the supply unit, the total number of relay output, analog output and two-wire transmitter supply options are limited to 16 units. This is valid if the power limits are activated at the same time.
- There is no such limitation when all SLOTs are selected as ANALOG and DIGITAL input.
- For configuration and different application details, please contact Elimko.

■ DIMENSIONS

144 mm   137 mm   110 mm   144 mm   137 mm   20 mm   10 mm

Elimko

Panel cut-out = 137 x 137 mm