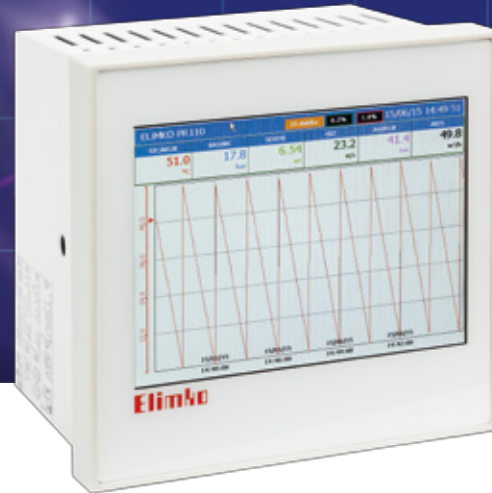# E-PR-110 SERIES
PAPERLESS RECORDERS

■ DESCRIPTION

E-PR-110 series paperless recorders 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.

CE

• This controller complies with the European Low Voltage Directive 73/23/EEC, by the application safety standard TS 2418 EN 61010-1. (Pollution degree 2)

• This controller complies with the EMC Directive 89/336/EEC, by the application of EMC standart TS EN 61326.

■ TECHNICAL SPECIFICATIONS

Accuracy Class	0.5
Screen Type	5.7" TFT Color LCD, 640× 480 resolution, 18 bit color, touch panel screen
Relay Output	SPST-NO ; 250 V AC, 5 A
Relay Outputs	Max. 12 Relay output (Depends on configuration)
A/D conversion	16 bit (isolated)
Analog Inputs	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 Inputs	Max. 64 Digital Inputs (Depends on configuration)
Digital Outputs	Max. 64 Digital Outputs (Depends on configuration)
Power Consumption	30 W max.
Sampling Rate	100 ms (For all channels)
Security	Security code for 5 user
Protection Class	Front Panel: IP65, Back Panel: IP20
Operating Temperature	-10 ÷ 50 °C
Data Storage	8 GB Micro SD Flash Internal
Operating Voltage	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

■ STANDARD TYPE INSTRUMENTS

E-PR-110 Series Paperless Recorder

E-PR-110 - S1 – S2 – S3 – S4 – Y– Z

Standard Features

Programmable universal inputs
8Gb Micro SD Internal
RS-485 ModBus RTU, Ethernet, 1 USB host

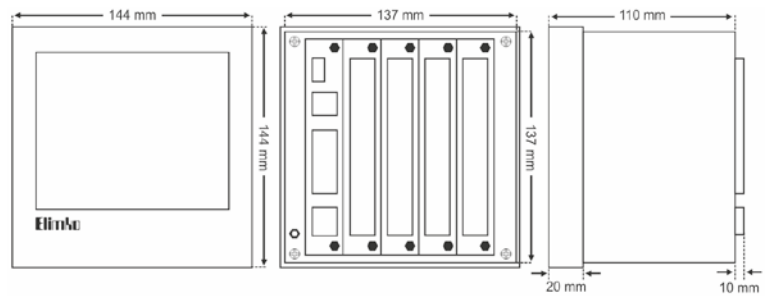|		S1	S2	S3	S4	Y	Z
S1	None	0					
	03 Analog Inputs	1					
	06 Analog Inputs	2					
	06 Relay Outputs	3					
	16 Digital Inputs	4					
	16 Digital Outputs	5					
	04 Analog Outputs	6					
S2	None		0				
	03 Analog Inputs		1				
	06 Analog Inputs		2				
	06 Relay Outputs		3				
	16 Digital Inputs		4				
	16 Digital Outputs		5				
	04 Analog Outputs		6				
S3	None			0			
	03 Analog Inputs			1			
	06 Analog Inputs			2			
	06 Relay Outputs			3			
	16 Digital Inputs			4			
	16 Digital Outputs			5			
	04 Analog Outputs			6			
S4	None				0		
	03 Analog Inputs				1		
	06 Analog Inputs				2		
	06 Relay Outputs				3		
	16 Digital Inputs				4		
	16 Digital Outputs				5		
	04 Analog Outputs				6		
WI-FI	None					0	
	Available					1	
Power Supply	85-265 V AC; 50-60 Hz / 85-375 V DC						0

Note

The total number of 4-20 mA transmitters to be supplied, relay outputs and analog outputs should not exceed 16 (A+B+C<=18) due to internal 24 V DC power limitation.

This limitation is valid only with the assumption of all the output will be active at the same time. For certain situations such as backup purposes, different output usage scenarios etc, the number of outputs could be increased. Please contact your sales provider for advise!!!

A= Number of 4-20 mA transmitters to be supplied
B= Number of Relay Outputs (number of individual outputs, not the number of cards, each relay output card has 6 relay outputs)
C= Number of Analog Outputs (number of individual outputs, not the number of cards, each analog output card has 4 analog outputs)

■ DIMENSIONS

Panel Cut-out: 137 x 137mm