

FLEXIBLE, BUILT-IN I/O PAPERLESS RECORDER 73VR3100

Easily Integrated into a PLC System

- Compatible with various open networks
- A wide selection of input modules
- 20 msec. high speed sampling mode
- Up to 64 inputs

PLC

CC-Link

DeviceNet



73VR3100 SERIES PAPERLESS RECORDER

Ethernet

PROFI[®]
 PROCESS FIELD BUS
 BUS

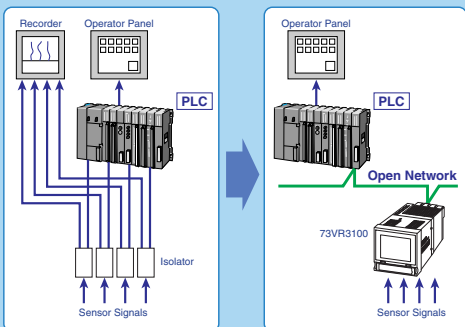
LONWORKS

T-Link

Modbus

Remote I/O with Local Display / Recording Function

Display & recording data input to a control system

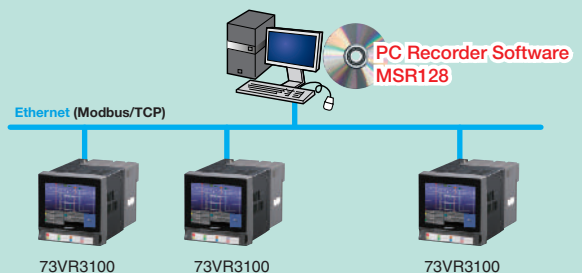


Network Modules

CC-Link	
R3-NC1-N	analog 16 pt
R3-NC2-N	analog 32 pt
R3-NC3-N	Ver.2
DeviceNet	
R3-ND1-N	analog 16 pt
R3-ND2-N	analog 32 pt
R3-ND3-N	analog 64 pt
Modbus/TCP	
R3-NE1-N	Ethernet
T-Link (Fuji Electric)	
R3-NF1-N	
Modbus	
R3-NM1-N	
PROFIBUS-DP	
R3-NP1-N	
LONWORKS	
R3-NL1-N	analog 16 pt

Realtime Trend Monitor & Recording

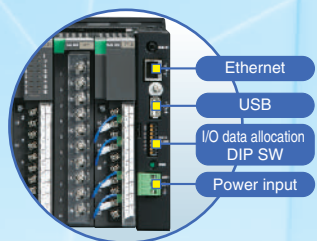
A free software CD including the PC Recorder Software (model: MSR128) is attached to the product package. The 73VR3100 data scattered throughout the field site can be monitored and recorded at single host PC connected via Ethernet.



Visit Your I/O Superstore! – <http://www.m-system.com/>

VERSATILE FUNCTIONS SELECTABLE WITH INPUT MODULES

The 73VR3100 can mount up to 4 input modules selected from the R3 series on the rear side of the recorder/viewer module. It provides a simple and economical solution when you have many different types of input. By replacing one of the I/O modules with R3 series network module, the 73VR3100 can directly communicate with major PLC.

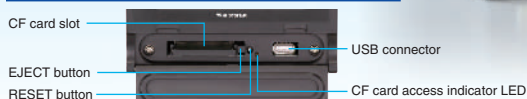


FLEXIBLE, BUILT-IN I/O PAPERLESS RECORDER

73VR3100

IP65 front cover suitable for use in a sanitary area

CF Card accessible at the front



5.5-inch TFT LCD touch panel screen

Network module

Selectable input modules (max. 4)

		STORING RATE					STORING RATE					STORING RATE		
		20ms	0.1s	≥0.5s			20ms	0.1s	≥0.5s			20ms	0.1s	≥0.5s
DC Current input					Thermocouple input					AC Current input				
R3-SS4	Isolated, 4 ch.	Y	Y	Y	R3-TS4	Isolated, 4 ch.	---	---	Y	R3-CT8B	Clamp-on sensor CLSB input, 8 ch.	---	---	Y
R3-SS8	Isolated, 8 ch.	---	Y	Y	R3-TS8	Isolated, 8 ch.	---	---	Y	AC Voltage input				
R3-SS8N	Non-isolated, 8 ch.	---	Y	Y	RTD input					R3-PT4	Isolated, 4 ch.	---	---	Y
R3-SS16N	Non-isolated, 16 ch.	---	Y	Y	R3-RS4	Isolated, 4 ch.	---	---	Y	Pulse input				
DC Voltage input					R3-RS8	Isolated, 8 ch.	---	---	Y	R3-PA2	Encoder, 2 ch.	---	---	Y
R3-SV4	Isolated, 4 ch.	Y	Y	Y	4-20 mA input with Excitation					R3-PA4	High speed, 4 ch.	---	---	Y
R3-SV4A	Isolated, millivolt, 4 ch.	Y	Y	Y	R3-DS4	Isolated, 4 ch.	Y	Y	Y	R3-PA4A	High speed totalized pulse, 4 ch.	---	---	Y
R3-SV4B	Isolated, wide span, 4 ch.	Y	Y	Y	R3-DS8N	Non-isolated, 8 ch.	---	Y	Y	R3-PA16	Totalized pulse, 16 ch.	---	---	Y
R3-SV8	Isolated, 8 ch.	---	Y	Y	AC Current input					Discrete input				
R3-SV8A	Isolated, millivolt, 8 ch.	---	Y	Y	R3-CT4	Isolated, 4 ch.	---	---	Y	R3-DA16	Internal excitation, 16 ch.	Y	Y	Y
R3-SV8B	Isolated, wide span, 8 ch.	---	Y	Y	R3-CT4A	Clamp-on sensor CLSA input, 4 ch.	---	---	Y	Discrete output				
R3-SV8N	Non-isolated, 8 ch.	Y	Y	Y	R3-CT4B	Clamp-on sensor CLSB input, 4 ch.	---	---	Y	R3-DC16	Relay output, 16 ch.	---	---	Y
R3-SV16N	Non-isolated, 16 ch.	---	Y	Y	R3-CT8A	Clamp-on sensor CLSA input, 8 ch.	---	---	Y					

[Legend] Y = Selectable, --- = Not selectable

73VR3100 SERIES SPECIFICATIONS

Paperless Recorder 73VR3100

DISPLAY

Display device: 5.5-inch TFT LCD
Display colors: 256
Resolution: 320 x 240 pixels
Pixel pitch: 0.12 x 0.35 mm
Backlight: Cold-cathode tube

INTERFACE

Ethernet: 10BASE-T / 100BASE-TX automatically switched; Conforms to IEEE 802 (10BASE-T) or IEEE 802.3 (100BASE-TX)
IP address: 192.168.0.1 (factory default setting)
CF Card slot: Type I; for use with the cards' operating voltage 3.3V
USB: Conforms to Version 1.1

INPUT & OUTPUT

R3 series I/O modules: Max. 4
I/O channels: Max. 64
Function channels: Max. 64
Storing rate: 20 msec, 0.1 sec, 0.5 sec, 1 sec, 2 sec, 5 sec, 10 sec, 1 min, 10 min.

INSTALLATION

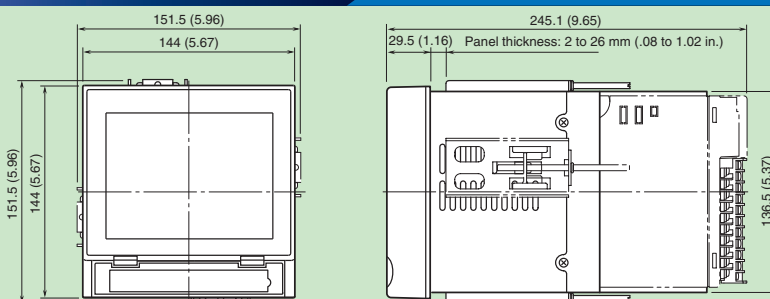
Front panel protection: IP 65
Power input
AC: 85 – 264V, 47 – 66 Hz
DC: 24V ±10%
 Ripple 10% p-p max.
External dimensions: W144 x H144 x D245.1 mm*
 (5.67" x 5.67" x 9.65") *Includes I/O modules
Weight: 2.3 kg (5.1 lbs) except I/O modules

OPERATING FUNCTIONS

Arithmetic: Addition/subtraction, Multiplication, Division
Logical: AND, OR, NOT, XOR
Mathematical: Square root extractor, Power
Accumulation: Analog accumulation, Pulse accumulation
Filter: Moving average, First order lag
Hold: Peak (maximum) hold, Peak (minimum) hold

EXTERNAL DIMENSIONS unit: mm (inch)

Paperless Recorder 73VR3100



Mounting brackets are usable either on both sides, or on the top and the bottom.

* Specifications are subject to change without notice. • M and M-SYSTEM are registered trademarks of M-System Co., Ltd., registered in Japan, the United States, and other countries.



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