

NI-PLR

PAPERLESS RECORDER





BRIEF INTRODUCTION >>>

NI-PLR IS A 7-INCH COLOR SCREEN PAPERLESS RECORDER, OPERATED WITH TOUCH SCREEN CONVENIENTLY. IT ISOLATED MEASURE CURRENT SIGNAL, VOLTAGE SIGNAL, THERMOCOUPLE OR RTD SENSOR DIRECTLY ON EVERY SINGLE CHANNEL. WITH ARM CORTEX MCU AND 24 BIT ΔΣ AD CONVERTOR INTEGRATED IN EVERY MEASUREMENT MODULE, IT MEASURE VARIOUS SIGNAL PRECISELY. WITH ARM CPU INTEGRATED IN DISPLAY PANEL, IT CAN EASILY CONNECT TO HOST SIDE THROUGH VARIOUS COMMUNICATION INTERFACE. NI-PLR DOES DISPLAY CHANNEL DATA IN MANY FORMS, SUCH AS NUMBER, HISTOGRAM, TIME LINE, ALARM LIST, ETC. IN GENERAL, NI-PLR SAMPLE CHANNEL DATA, PRESERVE OR TRANSFORM IT, THEN DISPLAY IT, FINALLY RECORD IT PERIODICALLY.

APPLICATIONS >>>

ENVIRONMENTAL PROTECTION / SCIENCE AND EDUCATION / AUTOMATION INDUSTRY / CHEMICALS & PHARMA INDUSTRY / R&D LABORATORY ETC.

16 INPUT CHANNEL >>>

1. CURRENT SIGNAL: ±4~20MA CURRENT SOURCE

2. VOLTAGE SIGNAL: -100~100V, -10~10V, -1000~1000MV, -100~100MV VOLTAGE SOURCE

3. THERMOCOUPLE: R, S, B, K, E, T, J, N (CONFORM TO NIST ITS-90 STANDARD)

4. RTD SENSOR: 3-WIRE PT100, PT1000 (CONFORM TO EN 60 751(ITS-90) STANDARD)

COMMUNICATION INTERFACE >>>

1. RS485 SERIAL PORT - MODBUS

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TECHNICAL PARAMETERS>>>

	MODEL	NI-PLR		
MONITOR		7" TFT LCD (800*480 pixels)		
TOUCH SCREEN		INDUSTRIAL RESISTIVE TOUCH		
RATE	D POWER SUPPLY	AC: 100-240V(50/60HZ), DC:24V(20 WATT)		
POW	ER CONSUMPTION	MAXIMUM 30VA		
MAXIM	UM INPUT CHANNEL	12,16,24,36,48 Channels		
ISOL	ATION VOLTAGE	300 VDC CHANNEL TO CHANNEL		
SA	MPLING PERIOD	1000MS(ALL CHANNELS)		
RECO	ORDING INTERVAL	PROGRAMABLE: 1 TO 9999 SECONDS		
INTI	ERNAL STORAGE	4 GB		
		USB FLASH DISK(MAX 32GB)(FILES		
EAT	ERNAL STORAGE	SYSTEM : FAT32)		
INS	STRUMENT SIZE	186 X 155 X 165MM (WHD)		
PAN	EL CUT-OUT SIZE	138 X 138 X 140MM (WHD)		
INST	RUMENT WEIGHT	ABOUT 1.8 KGS		

RECORD TIME (INTERNAL STORAGE) VS. SAMPLING CHANNELS AND RECORDING INTERVAL >>>

	RECORD INTERVAL (Example)				
CHANNELS	1 S	15 S	240 S		
16	100 DAYS	100 X 15 DAYS	100 X 240 DAYS		

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MEASUREMENT PARAMETERS >>>

CHANNEL TYPE	RANGE OF MEASUREMENT	RESOLUTION (100,200,500M S)	RESOLUTION (1,2,5 S)	INPUT RESISTANCE	MEASUREMENT ERROR
4-20mA	-25 ~ 25mA	0.001mA	0.00001mA	<200Ω	0.05%+0.01%
100 v	-110~110V	0.01V	0.0001V	>1MΩ	0.05%+0.01%
10 v	-11~11V	0.001V	0.00001V	>1MΩ	0.05%+0.01%
1000mV	-1100 ~ 1100mV	0.1mV	0.001mV	>10MΩ	0.05%+0.01%
100mV	-110~110mV	0.01mV	0.0001mV	> 10MΩ	0.05%+0.01%
R	0~1768°C	0.1°C	0.01°C	> 10MΩ	±0.1°C
S	0~1768°C	0.1°C	0.01°C	> 10MΩ	±0.1°C
В	250~1820°C	0.1°C	0.01°C	>10MΩ	±0.1°C
К	-200~1372°C	0.1°C	0.01°C	>10MΩ	±0.1°C
E	-200~1000°C	0.1°C	0.01°C	> 10MΩ	±0.1°C
Т	-200~400°C	0.1°C	0.01°C	>10MΩ	±0.1°C
J	-200~1200°C	0.1°C	0.01°C	>10MΩ	±0.1°C
Ν	-200~1300°C	0.1°C	0.01°C	>10MΩ	±0.1°C
3-W PT100	-200~800°C	0.1°C	0.01°C	-	±0.1°C
3-W PT1000	-200~800°C	0.1°C	0.01°C	_	±0.1°C

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- 100MV AND 1000MV ARE TYPE OF VOLTAGE MEASUREMENT WITH FLOATING INPUT. SO ITS MEASURING VALUE WILL BE INVALID WITHOUT INPUT SIGNAL.
- 0.05% + 0.01% REPRESENT FOR ±(0.05% READING VALUE + 0.01% FULL RANGE VALUE).
- THERMOCOUPLE INTRODUCED BY COLD JUNCTION COMPENSATION, SO • ADDITIONAL COLD JUNCTION TEMPERATURE CONDUCTION AND MEASUREMENT ERROR (±1°C) NEED TO ADDED.
- THERMOCOUPLE AND RTD SENSORS HAVE SELF-ERROR IN ITSELF. REFERENCE SENSOR DATA SHEET IS NEEDED.







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