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PPS Series Videographic Data Recorders

PPS Series Videographic Data Recorders

Now with Touch Screen Technology!





PPS-2000



PPS-3000

Product Overview

- * The PPS Series is a major advance in the market for Paperless Videographic Data Recorders incorporating Touch Screen Technology for set-up and programing.
- * The PPS Series encompasses three models:
 - The PPS-1000 for basic 3 or 6 channel recording on a 4.3" screen
 - The PPS-2000 for up to 24 channels on a 5.6" screen
 - The PPS-3000 expandable to 48 channels on a 12.1" screen
- * The PPS Series displays data in real time on the touch screen.
- * The PPS saves data to internal memory that can be exported to SD memory cards or USB ports as well as over a LAN using the optional Data Acquisition Software.
- * Data logging supports notes being written directly on the Touch Screen that may be saved with the data files. The data files may be started and stopped as a batch operation with additional batch lot information.
- * The Basic PC software package included at No Charge provides:
 - Historical Viewer/Configuration capability to view, print, export and archive PPS Series data files imported via SD card or USB drive
 - Create and edit PPS configurations to be downloaded back to the recorder
- * Data Aquisition Studio software combined with the Basic package provides real time access from one or more PPS units via LAN, serial or Modbus with datalogging functions at the PC.
- * Optional firmware packages include the Panel Studio developement software to design custom displays including digital and analog tags and values with animation.



Design Features

- * Touch Screen Technology
- * TFT high resolution color LCD
- * 100 millisecond sample rate and data logging
- * High accuracy 24 bit A-D analog inputs
- * 16 bit A-D analog outputs
- * Digital count inputs, maximum frequency 100 Hz
- * Plug & Play I/O card/modules:
 - Analog Input 3 or 6 per card
 - Analog Output 6 per card
 - Digital Input 6 per card
 - Digital/Relay Output 6 per card
 - Combo Card 3 Digital Inputs + 3 Relay Outputs
- * SD Slot for internal memory expansion
- * (2) USB host ports for downloading data or printer connection
- * 6.73"/171mm short panel depth
- * Ethernet standard with optional RS-232 or RS422/485
- * NEMA 4X / IP65 water resistant housing



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PPS Series Videographic Data Recorders



PPS-2000 Front View

Front Panel Features

- * High resolution TFT LCD Color Touch Screen

 - PPS-1000: 4.3", 480 × 272 resolution
 PPS-2000: 5.6", 640 × 480 resolution
 PPS-3000: 12.1", 1024 × 768 resolution
- * SD slot for external memory: 16G or 32G
- * 1st USB slot, for memory, auxillary or printer
- * Reset To Reset and Restore factory settings
- * Start/Stop To Start or Stop channel recording, or to turn the screen on or off
- * Front Door Key locked for security

Back Panel Features

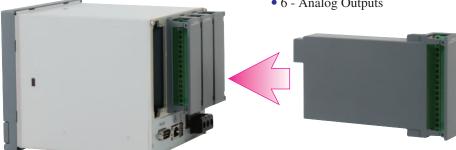
- * Multiple slots for Input/Output modules
 - PPS-1000 4 slots, 6 analog channels maximum
 - PPS-2000 4 slots, 24 analog channels maximum
 - PPS-3000 16 slots, 48 analog channels maximum
- * Optional RS-232/422/485 Serial communications
- * Ethernet port, standard for Internet/Intranet coms
- * 2nd USB slot for memory, auxillary or printer
- * Power Switch
 - Optional for panel style mounting
 - Standard for portable style mounting
- * Power Terminals, for input power connections



PPS-2000 Rear View

Input / Output Modules

- * Input/Output modules can be added or removed to the rear of the unit easily. The modules are locked in with screws.
- * Input/Output module types are:
 - 6 channel Analog Inputs
 - 3 channel Analog Inputs
 - 6 Relay Outputs, 5A 240V, NO and NC
 - 6 Digital Inputs
 - 3 Relay Outputs and 3 Digital Inputs
 - 6 Analog Outputs



I/O Modules for Simple Expansion

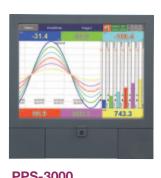


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PPS Series Videographic Data Recorders



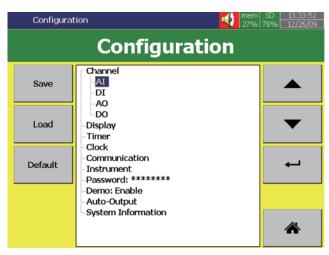




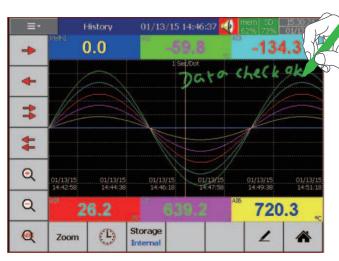
	PPS-1000	PPS-2000	PPS-3000	
Analog Input Channels	3 or 6	3, 6, 12, 18, or 24	6, 12, 18, 24, 30, 36,42 or 48	
Universal Analog Inputs	Thermocouples: J, K, T, E, B, R, S, N, L, U, P, W5, W3, LR, A1, A2, A3, M; Linear: mA, mV, V RTD: Pt50, Pt100, Pt200, Pt500, Pt1000 (α=0.00385) Pt50, Pt100 (α=0.00391) JPt50, JPt100, JPt200, JPt500, JPt1000 (α=0.003916) Cu10, (α=0.00427), Cu50, Cu100 (α=0.00426, 0.00428) Ni100, Ni200, Ni500, Ni1000 (α=0.00617)			
Sampling Rate	100mS, 24 bit Analog to Digital Co	onverter		
Math, External Channels, FDA 21 CFR part 11	Available in optional Plus versions of the firmware.			
Display, Touch Screen	4.3" TFT Color LCD	5.6" TFT Color LCD	12.1" TFT Color LCD	
Resolution	480 x 272	640 x 480	1024 x 768	
Email, Screen Saver	Yes	Yes	Yes	
CPU	ARM Cortex-A8, 1 GHz	ARM Cortex-A8, 1 GHz	ARM Cortex-A8, 1 GHz	
Internal Flash Memory	256 MB	256 MB	256 MB	
Internal RAM	256 MB	256 MB	256 MB	
Ethernet	Modbus TCP/IP	Modbus TCP/IP	Modbus TCP/IP	
RS-232/422/485	Optional RS-232 or RS-422/485 Modbus RTU in the rear			
SD card slot, USB	Standard SD and one USB in the front, one USB in the rear			
Pulse Input	Optional Digital Input Card for either logic or high frequency counter			
START/STOP switch	Start/Stop channel recording, and manually turn off the display			
Calibration	On site calibration or channel correction using Offset and Gain			
Multilingual	Programmable in Brazil Portuguese, Chinese (simplified and traditional), Czech, Danish, Dutch, English, French, German, Greek, Italian, Japanese, Korean, Polish, Portugese, Russian, Spanish, Thai and Turkish			
PC Software	Configuration and Historical Viewer - Standard; Real Time monitoring and Data Acquisition Studio - Optional			
Power Supply	90-250 VAC or 11 - 36 VDC			
Outer Dimensions (WxHxL)	5.67" × 5.67" × 7.44" (144 × 144 × 189mm)	5.67" × 5.67" × 7.44" (144 × 144 × 189mm)	11.34" × 11.34" × 7.44" (288 × 288 × 189mm)	
Panel Mounting Depth	6.73" (171mm)	6.73" (171mm)	6.73" (171mm)	
Panel Cutout	5.39" × 5.39" (137 × 137mm)	5.39" × 5.39" (137 × 137mm)	11.06" × 11.06" (281 × 281mm)	
Protection Rating	NEMA 4X / IP65 front; IP20 rear			
Operating Temperature	32° to 122°F (0° to 50°C)			
Storage Temperature	-22° to 158°F (-30° to 70°C)			
Safety Standards	cURus, RoHS			



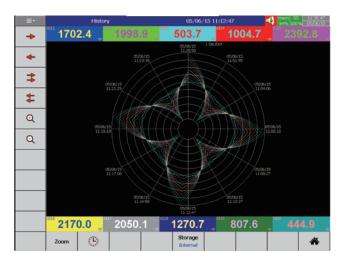
Firmware Features



Configuration in Indented Layout for easy operation



Free hand note taking, directly on the screen



Display simulates Circular Chart Recorder (PPS-3000 only)

Standard Firmware Package

- *AI:* Analog Input is offered in various logging speeds of 100mS, 1, 2, 5, 10, 20, 30 Sec., 1, 2 minutes
- *DI:* Digital Input can be configured for Normal Logic or High Frequency Pulse
- *AO*: Analog Outputs can be configured in mA or Volts and it's function defined.
- *DO*: Digital/Relay Outputs can be enabled for process functions
- Display: Various display speeds can be set in 100mS, 1, 2, 5, 10, 20, 30, Sec., 1, 2, 10, 30 min./page, 1, 2, 4, 8, 12 hrs./page, 1 day/page
- *Timer*: Timer configured in Countdown, Repeat Countdown, Daily, Weekly, of Monthly base and various jobs can be defined
 - Clock: Date Style of MM/dd/yy or dd/MM/yy, Time Synchronize via Internet, and Daylight Savings Time can be defined
 - Communications: Web Server and E-mail functions
 - Instrument: Brightness adjustment & Screen Saver
- Password: If Normal Security is chosen, then one password is offered. If the high security of CFR-21 is chosen, then 9 levels of passwords can be defined
- *Demo:* Built-in Demonstration of the instrument's features can be activated

Optional Firmware Plus 1 Package

- Math, Counters and Totalizer functions within derived channels
- Derived Channels by Model Number: PPS-1000: 15 derived channels PPS-2000: 40 derived channels PPS-3000: 60 derived channels
- High frequency pulse inputs can be configured from digital inputs
- With the CFR 21 security feature enabled, the PPS Series meets the requirements for electronic data for FDA 21 CFR part 11
- External Channel Input: The PPS Series is configurable as a Master or Slave device with the number of external channels varying by Model. The External Channels require Modbus RTU protocol over either the TCP/IP Ethernet port or the optional serial RS232/485
- Data log Batch start/stop allows batch data file name, file duration, lot number and up to 3 comments to be stored as part of the file





Firmware Features

Continued from previous page...

Optional Firmware Plus 2 Package

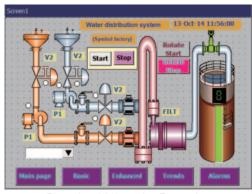
- Panel Studio development software allows the user to custom design display views that provide a graphical representation of the application including animation as well as digital and analog tags and values.
- The user can use Panel Studio to edit specific displays on the PC first and then download it onto the recorders.
- The custom edited displays will be added to the standard pages.



Create and edit the display on the PC

Optional Firmware Plus 3 Package

- This package is a combination of the Plus 1 and Plus 2 firmware features.
- It features Extended Math Functions, FDA 21 CFR part 11 compliance and Panel Studio development software.

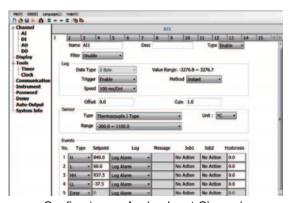


Download it into the Recorder

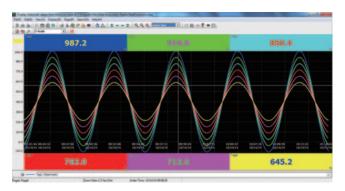
Software Features

Standard Basic Software

- Configuration: Create and edit recorder configurations including projects, analog channels, external and math channels, Events, Inputs, and Outputs, Power, etc. and download the configuration back to the recorder via LAN, SD or USB cards.
- *Historical Viewer:* Provides the capability to view, print, export (csv.) and archive PPS Series data files imported via LAN, SD or USB cards.



Configuring an Analog Input Channel



Historical view of multiple channels



Software Features (continued)

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Real Time Viewer on the PC

Optional Extensive Software Package

- In addition to the standard Historical Viewer Configuration software, the Extensive Software Package, includes the Data Aquisition Studio to provide Real Time Access from one to multiple PPS units (2,048 tags) via LAN or serial Modbus.
- Provides data logging functions within the software in the PC.
- The software allows real time viewing of standard screen views from specific PPS recorders, to download data log files and download/upload configuration files to the recorder via the LAN or serial Modbus.
- The PPS Data Aquisition Studio is fee based and requires a hardware dongle to be inserted into one of the PC's USB drives to fully function. Without the hardware dongle, the software may be installed and run for 1-hour and then it will stop functioning.

Rear Panel Layout



PPS-10004 slots, up to 6 Analog inputs



PPS-20004 slots, up to 24 Analog inputs



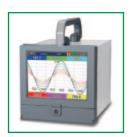
PPS-300016 slots, up to 48 Analog inputs

Portables

The portable version of the PPS Series is supplied with a handle, 120VAC cordset, and rear mounted Power Switch.



PPS-1000



PPS-2000



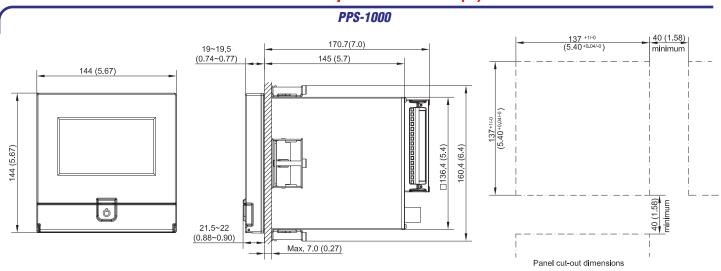
PPS-3000

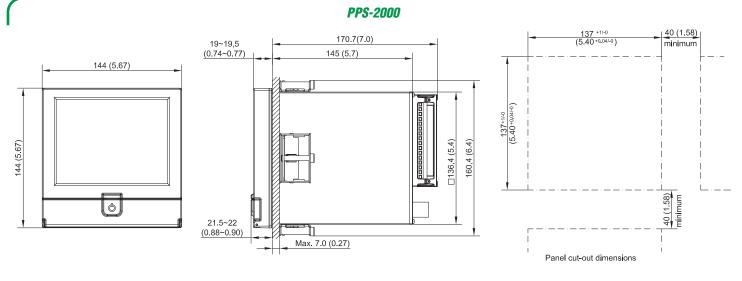
Instrumentation

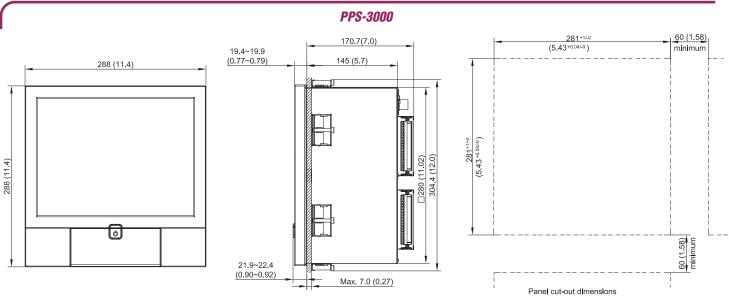
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PPS Series Videographic Data Recorders

Dimensional Specifications: mm (in)









PPS-1000 Ordering Information

Ordering Code: **PPS-1000**

Analog Inputs BOX 1 **03** = 3 Analog Input Channels I/O Options BOX 2

0 = None

6 = 3 Relay Outputs and 3 Digital Inputs

Analog Inputs BOX 1 **06** = 6 Analog input Channels I/O Options BOX 2

 $\mathbf{0} = \text{None}$

1 = 6 Relay Outputs

3 = 6 Digital Inputs

6 = 3 Relay Outputs and 3 Digital Inputs

7 = 6 Relay Outputs and 6 Digital Inputs

Power Box 3

A = 90 - 250 VAC, 50 - 60 Hz

D = 11 - 36 VDC

Data Communications BOX 4

0 = Standard Ethernet

1 = Ethernet and RS-232

2 = Ethernet RS-422/485

Firmware BOX 5

0 = Standard version

- **1** = Plus version 1 with extra math, external channels, batch and FDA 21 CFR part 11
- **2** = Plus version 2 with custom edited display and editing software Panel Studio
- **3** = Plus version 3 includes Plus versions 1 and 2.

PC Software BOX 6

- 1 = Basic software includes Historical Viewer and Configuration
- **2** = Extensive software Data Acquiaition Studio includes RealTime Viewer & Historical Viewer and Configuration

Mounting Types, Power Cord & Switch BOX 7

- **0** = Panelt Mount, no power switch, no power cord
- 1 = Panel Mount, with power switch, no power cord
- 2 = Portable style, with UL/CSA power cord and switch
- 3 = Portable style, with VDE power cord and switch
- **4** = Portable style, with SAA power cord and switch
- **5** = Portable style, with BS power cord and switch

Removable Memory BOX 8

00 = None

S1 = 16G SD Card

S2 = 32G SD Card

Ordering Information

Videographic Data Recorders are offered with the options listed in the worksheet. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements and a part number will be assigned, or choose one of the basic systems.

Standard lead time is stock to 3 weeks.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Basic Systems (Part Number & Description)

PPS10001 3 Analog Input Channels, no input/output, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

PPS10002 6 Analog Input Channels, no input/output, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

PPS10003 3 Analog Input Channels, 3 Digital Input and 3 Relay Outputs, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

PPS10004 6 Analog Input Channels, 3 Digital Input and 3 Relay Outputs, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

Auxillary I/O Cards/Modules and Accessories (Part Number & Description)

PPS90001 6 Analog Input Channels

PPS90002 3 Analog Input Channels

PPS90003 6 Relay Outputs

PPS90004 6 Digital Inputs

PPS90005 3 Relay Outputs and 3 Digital Inputs

PPS90006 6 Analog Outputs PPS90050 Spare Door Key



PPS-2000 Ordering Information

Ordering Code:	PPS-2000	3 4 5 6 7 8		
Analog Inputs BOX 1 03 = 3 Analog Input Channels	 I/O Options BOX 2 O = None 6 = 3 Relay Outputs and 3 Digital Inputs C = 3 Relay Outputs and 3 Digital Inputs and 6 Analog Outputs 	Power BOX 3 A = 90 - 250 VAC, 50 - 60 Hz D = 11 - 36 VDC		
Analog Inputs BOX 1 06 = 6 Analog input Channels	I/O Options BOX 2 0 = None 1 = 6 Relay Outputs 3 = 6 Digital Inputs 5 = 6 Analog Outputs 6 = 3 Relay Outputs and 3 Digital Inputs 7 = 6 Relay Outputs and 6 Digital Inputs A = 6 Relay Outputs and 6 Analog Outpus B = 6 Digital Inputs and 6 Analog Outputs	Data Communications BOX 4 0 = Standard Ethernet 1 = Ethernet and RS-232 2 = Ethernet RS-422/485 Firmware BOX 5 0 = Standard version		
	C = 3 Relay Outputs and 3 Digital Inputs and 6 Analog Outputs D = 6 Relay Outputs and 6 Digital Inputs and 6 Analog Outputs	 1 = Plus version 1 with extra math, external channels, batch and FDA 21 CFR part 11 2 = Plus version 2 with custom edited display and editing software Panel Studio 3 = Plus version 3 includes Plus versions 1 and 2 		
Analog Inputs BOX 1 12 = 12 Analog input Channels	I/O Options BOX 2 0 = None 1 = 6 Relay Outputs 2 = 12 Relay Outputs 3 = 6 Digital Inputs 4 = 12 Digital Outputs 5 = 6 Analog Outputs 6 = 3 Relay Outputs and 3 Digital Inputs 7 = 6 Relay Outputs and 6 Digital Inputs 8 = 9 Relay Outputs and 3 Digital Inputs	 PC Software BOX 6 1 = Basic software includes Historical Viewer and Configuration 2 = Extensive software Data Acquiaition Studio includes RealTime Viewer & Historical Viewer and Configuration 		
	 9 = 3 Relay Outputs and 9 Digital Inputs A = 6 Relay Outputs and 6 Analog Outputs B = 6 Digital Inputs and 6 Analog Outputs C = 3 Relay Outputs and 3 Digital Inputs and 6 Analog Outputs 	Mounting Types, Power Cord & Switch BOD = Panelt Mount, no power switch, no power cord 1 = Panel Mount, with power switch, no power cord 2 = Portable style, with UL/CSA power cord and switch 3 = Portable style, with VDE power cord and switch		
Analog Inputs BOX 1 18 = 18 Analog input Channels	I/O Options BOX 2 0 = None 1 = 6 Relay Outputs 3 = 6 Digital Inputs 5 = 6 Analog Outputs 6 = 3 Relay Outputs and 3 Digital Inputs	4 = Portable style, with SAA power cord and switch 5 = Portable style, with BS power cord and switch Removable Memory BOX 8		
Analog Inputs BOX 1 24 = 24 Analog input Channels	I/O Options BOX 2 0 = None	00 = None S1 = 16G SD Card S2 = 32G SD Card		

ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements and a part number will be assigned, or choose one of the basic systems.

Standard lead time is stock to 3 weeks.

▲ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Basic Systems (Part Number & Description)

PPS20003 12 Analog Input Channels, no input/output, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

PPS20004 18 Analog Input Channels, no input/output, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

PPS20005 12 Analog Input Channels, 6 Digital Input and 6 Relay Outputs, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

PPS20006 18 Analog Input Channels, 3 Digital Input and 3 Relay Outputs, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

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PPS-3000 Ordering Information

Ordering Code: PPS-3000 - 2 3 4 5 6 7 8 9 10

Analog Inputs BOX 1

06 = 6 Analog Input Channels

12 = 12 Analog Input Channels

18 = 18 Analog Input Channels

24 = 24 Analog Input Channels

30 = 30 Analog Input Channels

36 = 36 Analog Input Channels **42** = 42 Analog Input Channels

48 = 48 Analog Input Channels

Relay Outputs BOX 2

0 = None

1 = 6 Output Relays

2 = 12 Output Relays

3 = 18 Output Relays

4 = 24 Output Relays

Digital Inputs BOX 3

0 = None

1 = 6 Digital Inputs

2 = 12 Digital Inputs

3 = 18 Digital Inputs

Analog Outputs BOX 4

0 = None

1 = 6 Analog Outputs

2 = 12 Analog Outputs

Power BOX 5

A = 90 - 250 VAC, 50 - 60 Hz

D = 11 - 36 VDC

Data Communications BOX 6

0 = Standard Ethernet

1 = Ethernet and RS-232

2 = Ethernet RS-422/485

Firmware BOX 7

0 = Standard version

1 = Plus version 1 with extra math, external channels, batch and FDA 21 CFR part 11

2 = Plus version 2 with custom edited display and editing software Panel Studio

3 = Plus version 3 includes Plus versions 1 and 2

PC Software BOX 8

- **1** = Basic software includes Historical Viewer and Configuration
- 2 = Extensive software Data Acquiaition Studio includes RealTime Viewer & Historical Viewer and Configuration

Mounting Types, Power Cord & Switch BOX 9

0 = Panelt Mount, no power switch, no power cord

- 1 = Panel Mount, with power switch, no power cord
- 2 = Portable style, with UL/CSA power cord and switch
- 3 = Portable style, with VDE power cord and switch
- 4 = Portable style, with SAA power cord and switch
- **5** = Portable style, with BS power cord and switch

Removable Memory BOX 10

00 = None

\$1 = 16G SD Card

S2 = 32G SD Card

Ordering Information

Videographic Data Recorders are offered with the options listed in the worksheet. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements and a part number will be assigned, or choose one of the basic systems.

Standard lead time is stock to 3 weeks.

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Basic Systems (Part Number & Description)

PPS30001 24 Analog Input Channels, no input/output, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

PPS30002 36 Analog Input Channels, no input/output, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

PPS30003 24 Analog Input Channels, 6 Digital Input and 6 Relay Outputs, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

PPS30004 36 Analog Input Channels, 6 Digital Input and 6 Relay Outputs, 90-250VAC Power Input, Standard Ethernet, Standard Firmware, Basic Software, Panel Mount, 16GB SD card

RCR-600 Chart Recorder



RCR-600 6-Point 100 mm Chart Recorder



Design Features

- * 6-Channel dotting recorder
- * 100 mm chart paper size
- * 144 × 144 mm metal housing
- * Weighs only 3.3 lb. (1.5 Kg
- * NEMA 4 / IP65 Dustproof war resistant housing
- * Universal settable inputend ran
- * Optional 6 alary ... v o vuts
- * Optional 3 dig al pu
- * Optional community on interface for RS-232
- * Agen vappr als:





tandard Functions

Analog Recording

Digital Display

Logging Int

List Print

Affix Print

Dot Print Skip

Programming

Memory

Alarm

Clock

Self Diagnostics

Description

Make analog reco. with 6 colored dots.

da char ed and alarm setpoint.

Print late, time, scaling, chart speed, process variable, and engineering unit at a programmed interval.

Prints chart speed, sensor type, measurement range, engineering unit, alarm setting value comment, printing description, logging print and on/off zone.

Prints channel number by the analog recording.

Skips recording of an unused channel.

Programs chart speed, alarm setting value, logging, dot point skip, date and time.

A built-in lithium battery protects the clock function backup.

Sets 2 types—high and low—per channel for a total of 4 levels.

Indicates year, month, day, hour and minute.

Indicates "Error" and code when there is a fault

Function

Open Input Indication Sets indicator at over 100% or 0% for an input.

Description

Tag Number Sets a tag number by 7 figures every channel.

Copy Function Copies a channel setup.

Setting Input Offset Setting input offset is possible for every channel.

manner.

Zone Recording Specifies a recording area for every channel to

separate into tracks.

Alarm Print Prints occurrence time, occurrence channel,

setting number, and alarm type in purple at

occurrence of alarm.

Alarm Recovery Print Prints recovery time, recovery channel, setting

number, and alarm type in purple at

recovering of an alarm.

Alarm Hysteresis Sets an alarm hysteresis width 0% full scale or

0.5% full scale.

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100 mm Chart Recorder

Specifications & Features – RCR-600 Chart Recorder

DESIGN SPECIFICATIONS

Input Signal

Thermocouple: J, K, T, E, B, S, R, C, N, U, L, Au-Fe

RTD: PT100, JPT100

DC Voltage: ±10mV, 0-20mV, 0-50mV, ±1V, 1-5V **Current:** 4-20 mA dc, with external 250W shunt resistor

Performance

Recording Width: 100 mm calibrated

Recording Accuracy: $\pm 0.2\%$; ± 1 digit maximum for display/

printing

Input Impedance: mV/tc input - $10M\Omega$

 $Vdc\ input - 1M\Omega,\ mA\ input - 100\Omega$ Common Mode Rejection Ratio (CMRR): 140 db Normal Mode Rejection Ratio (NMRR): 60 db Dielectric Strength: Power input/ground - 1500 Vac

Input/ground - 500 Vac

Vibration Resistance: 1 m/s² maximum 10 - 60 Hz

Shock Resistance: 2 m/s² maximum

Chart Feed Accuracy: ±0.1% maximum

Clock Precision: ±50 ppm

Power Source

Power Input: 85 to 264 Vac Frequency: 45 to 65 Hz Power Consumption: 30 VA

Recording and Printing

Recording: Raster-scan printing **Printing:** Dotting with 6-color ribbon

Dot Print Interval: 10.0 second / 6 channel maximum

Chart Paper: Length - 52.5 ft. (16m)

Chart Speed: 28 speeds, user selectable, from 10-1500 mm/hr **Printing Colors:** Purple, red, green, blue, brown, black

Alarm — Input/Output

Outputs: 1 relay drive per setting, up to 6 relays

250 Vac 3A/ 30Vdc 3A/ 125Vdc 25A

Quantity per Channel: 4
Digital Inputs: Maximum of 3

Normal Operating Conditions

Ambient Temperature: 32° to 122°F (to 50°C)
Relative Humidity: 35 to 85% and adding

Communications

Standard: RS-232C

Optional: RS-485 (Modbu RTU)

Structure

Dimension 5: $4 \times 14 \times 75 \text{ mm} (5.7" \times 5.7" \times 6.9")$ **Mountil:** Pane mount, allowable inclination -30° **Paral Cut ut:** $13 \times 138 \text{ mm} (5.43" \times 5.43")$

Ordering Code: RCR-600

RCR-600

Digital input / output BOX 1

0 = None

RCR40005

1 = 6 Relay output

2 = 3 Digital inputs

3 = 3 Digital inputs + 6 re y our ats

Out Paper 9 nso. Box 2 0 = No. 1 = Yes Data Communications BOX 3

0 = RS - 232C Interface 1 RS - 485 Interface

Ordering Information

The **RCR-600** is offered with the options listed in the worksheet. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements and a part number will be assigned, or choose one of the basic systems.

Standard lead time is stock to 4 weeks.

▲ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Basic Systems

Part Number Description 6-point dotting, 6 relay/digital outputs, no out of paper sensor, with RS-232C data interface RCR40002 6-point dotting, no relay/digital outputs, no out of paper sensor, with RS-232C data interface RCR40003 6-point dotting, 6 relay/digital outputs & 3 digital inputs, no out of paper sensor, with RS-232C data interface

has out of paper sensor, with RS-232C data interface

6-point dotting, 6 relay outputs,

Accessories - RCR-600

Part Number	Description
RCA40901.	Chart paper – Z fold style, 52.5 ft. (16 m)
RCA40902.	Replacement Multi-Color Ribbon
RCA40903.	Precision Shunt Resistor, 250W