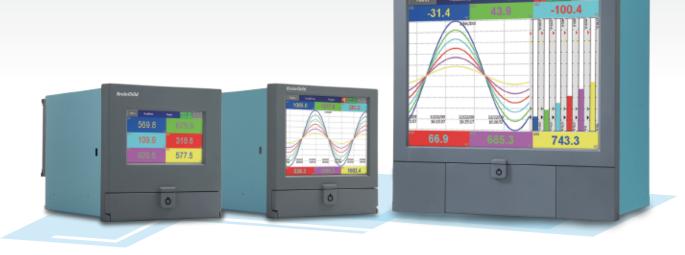
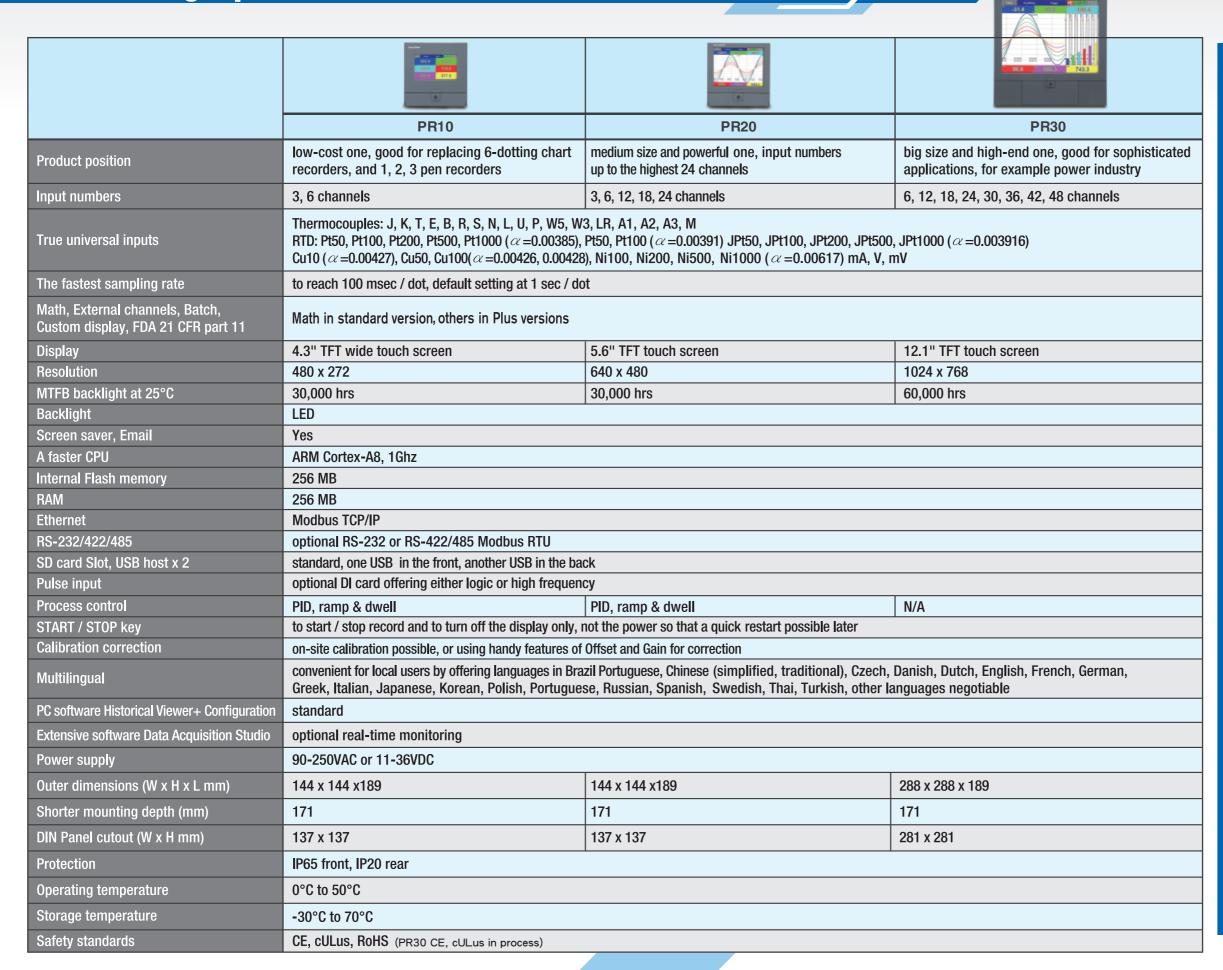
BrainChild



PR Series Paperless Recorders

Outstanding Specifications & Features



Overview

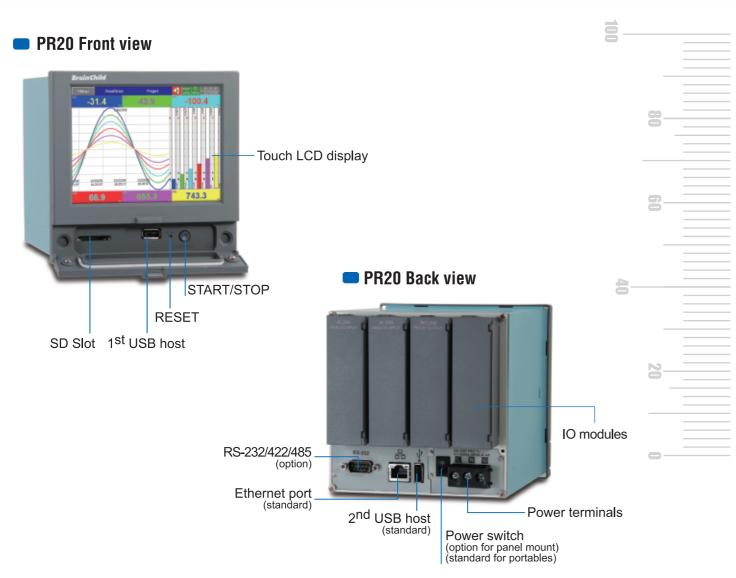
The new PR series paperless recorders are launched in full product range with outstanding specifications and features. PR series includes a low-cost PR10, a popular PR20 and a high-end PR30. Compared with the first generation VR series, PR series offers much more, for example recorders in 4.3" & 12.1" displays in addition to 5.6", 100 msec. sampling rate, external channels, batch, custom display, more strict FDA 21 CFR part 11, handwriting messages, SD slot, 2 USBs, pulse input, field calibration, Web Server, email, multilingual, IP65, and yet in shorter depth 171mm.

The new process control card for oven application It makes PR10 & PR20 becoming process controller + recorder

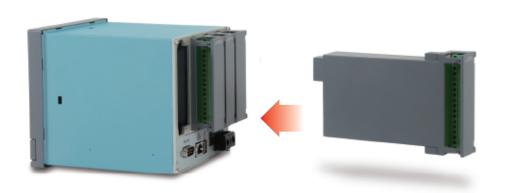


Smart Mechanism

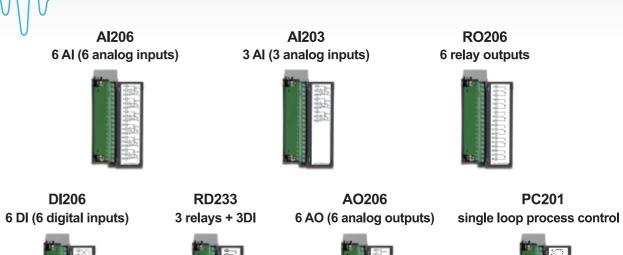
Front view, Back view



10 modules easy for expansion



Expandable modules of inputs & outputs









(4 Slots, up to 24 Al)

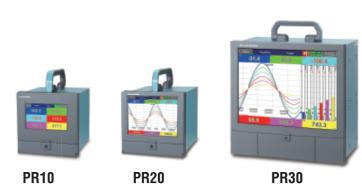
PR30 (16 Slots, up to 48 AI)

Portable recorders, Security key

PR10

(4 Slots, up to 6 AI)

Portable recorders

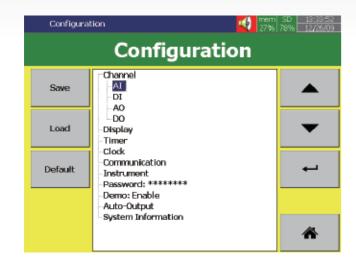




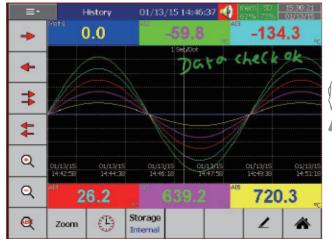


Friendly functions in recorders

Configuration in Tree Layout is easy for operation



Handwriting messages are handy for users





Circular display (PR30 only)

For some industries preferred circular display, PR30 can offer this unique feature and set the display speed for each page/circle in 30 minutes, 1, 2, 4, 8, 12 hours, 1, 2 days, or 1, 2, 4 weeks.



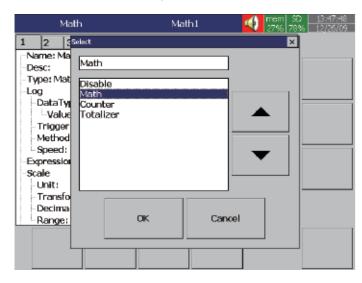
Standard version of Firmware

- Al: Analog input is offered various log speed in 100ms, 1, 2, 5, 10, 20, 30 Sec, 1, 2 Min/Dot.
- DI: Digital input is offered either normal Logic or high frequency Pulse.
- AO: In analog output, mA or V and its Expression can be defined.
- DO: Digital output/relay output can be enabled. Each DO card has 6 relays.
- **Display:** Various display speeds are available in 100ms, 1, 2, 5, 10, 20, 30 Sec/Dot, or 1, 2, 10, 30 Min/Page, 1, 2, 4, 8, 12 Hour/Page, or 1 Day/Page.
- **Timer:** Timer in Countdown, Repeat Countdown, Daily, Weekly or Monthly base, and various jobs can be defined.
- Clock: Date Style of MM/dd/yy or dd/MM/yy, Time Synchronize via Internet, and Summer Saving Time can be defined.
- **Communication:** Web Server and Email functions are available in Communication in Standard firmware.
- **Instrument:** Brightness adjustment and Screen Saver are available in Instrument.
- **Password:** If Normal Security is chosen, then only one password is offered. If high Security of CFR-21 is chosen, then 9 levels of password can be defined.
- **Demo:** Enable or disable the demonstration.
- **Auto-output:** Automatic output can be set to specify the printer, to print Historical data & Report data in specified period of time.
- **System information:** It gives Firmware version number, Internal & External memory status, IP address, and IO card status of each Slot.
- **Calibrate:** Sometimes the field calibration is required for high accuracy. In this case, a qualified engineer can do the necessary calibration.

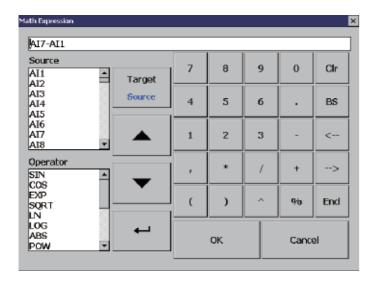
Friendly functions in recorders

Math: Standard version includes mathematics

Math: It includes Math, Counter & Totalizer.



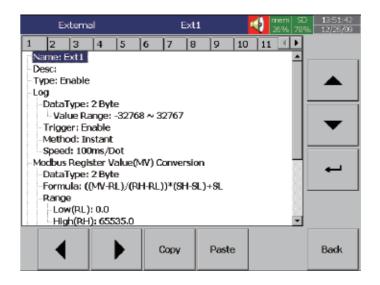
Math Expression is keyed in an easy way.



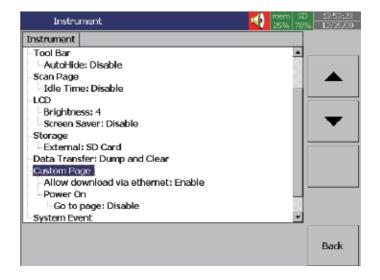


Plus versions offer more features of External Channels, Custom Display, Batch, FDA 21 CFR part 11.

External Channels: Besides Al & DI inputs, PR recorders accept inputs through communication called External Channels. PR10, PR20 & PR30 can work External Channels maximum up to 24, 48 & 96 respectively.



Custom Edited Display: In Plus versions, PC software Panel Studio allows users to edit the specific display instead of standard one, and then download it onto PR recorders.



Batch: Batch production record is constantly required for more strict production, for example food and drugs.

FDA 21 CFR part 11: This feature is complied with U.S. Food and Drug Administration with human health concern. All data should be avoided from manipulating after recording.

Powerful functions in PC Software

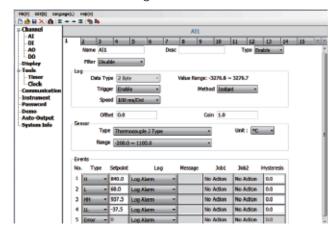


Free basic software

It consists of two parts, which are Configuration and Historical Viewer.

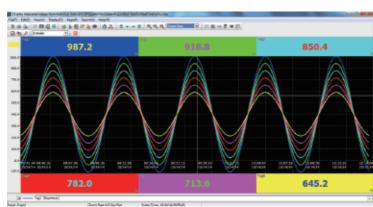
I. Configuration

It is easy to do recorder configuration on PC. Then, send the configuration files from PC to recorder.



II. Historical Viewer

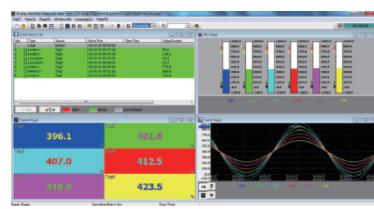
It can display historical trends, historical alarms, events, and then print it. It can search data by time, time period, tag, alarm, events and remarks. It also can export data in CSV format.



Extensive software Data Acquisition Studio

III. RealTime Viewer

Besides Configuration & Historical Viewer, it offers additional software RealTime Viewer for real-time monitoring.



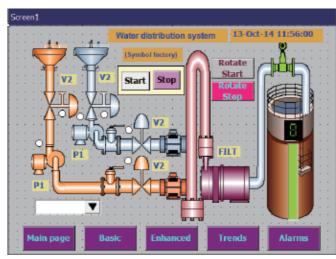
IV. Panel Studio

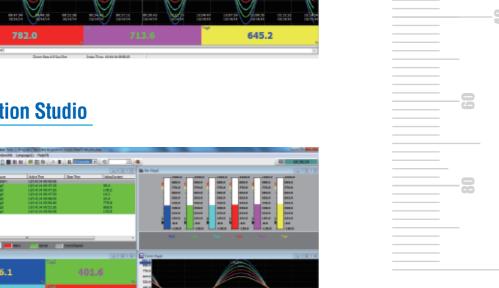
If Plus version 2 or 3 of Firmware is purchased, additional software Panel Studio is offered for editing custom display. The users can use it to edit specific displays on PC first, and then download it onto recorders. The custom edited displays will be additional pages to standard ones.

Edit it on PC



Download it onto recorders

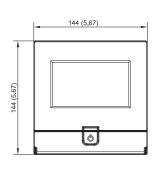


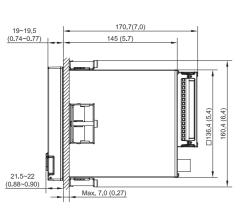


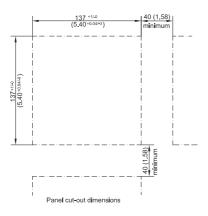
Installation

Dimensions in mm (in.)

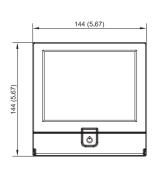
PR10

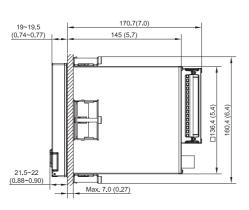


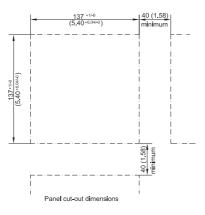




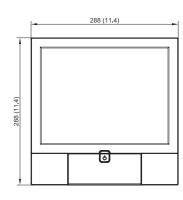
PR20

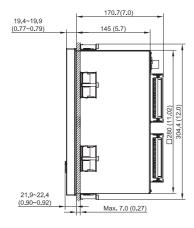


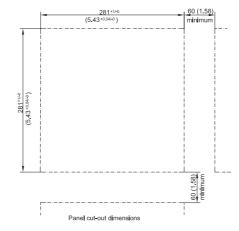




PR30

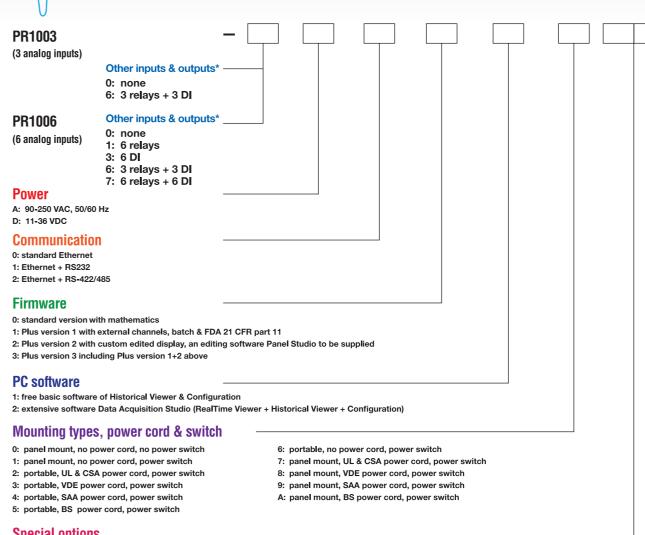






Ordering Code





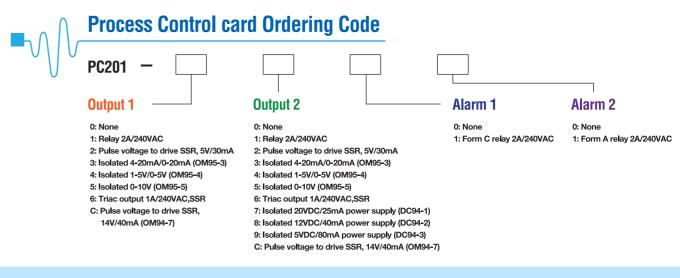
Special options

00: none 10: Process control card S1: 16G SD card

11: Process control card + 16G SD card S2: 32G SD card 12: Process control card + 32G SD card

*Note: DI - digital inputs

Process control card ordering code needs to be chosen after Special options 10, 11, 12 been selected



PR20 Ordering Code

PR2003 (3 analog inputs)		_													
(e analog inpute)	Other inputs & outputs* 0: none 6: 3 relays + 3 DI C: 3 relays + 3 DI + 6 AO														
PR2006 (6 analog inputs)	Other inputs & outputs* 0: none 1: 6 relays 3: 6 DI 5: 6 AO 6: 3 relays + 3 DI 7: 6 relays + 6 DI A: 6 relays + 6 AO B: 6 DI + 6 AO C: 3 relays + 3 DI + 6 AO D: 6 relays + 6 DI + 6 AO														
PR2009/12 (9/12 analog inputs)	Other inputs & outputs* 0: none 1: 6 relays 2: 12 relays 3: 6 DI 4: 12 DI 5: 6 AO 6: 3 relays + 3 DI 7: 6 relays + 3 DI 8: 9 relays + 3 DI 9: 3 relays + 9 DI A: 6 relays + 6 AO B: 6 DI + 6 AO C: 3 relays + 3 DI + 6 AO														
PR2015/18 (15/18 analog inputs)	Other inputs & outputs* 0: none 1: 6 relays 3: 6 DI 5: 6 AO 6: 3 relays + 3 DI														
PR2021/24 (21/24 analog inputs)	Other inputs & outputs* _ 0: none														
Power	-														
A: 90-250 VAC, 50/6 D: 11-36 VDC	0 Hz														
Communication	on -														
0: standard Ethernet 1: Ethernet + RS232 2: Ethernet + RS-422															
Firmware	-														
2: Plus version 2 with	with mathematics h external channels batch & h custom edited display, an e luding Plus version 1+2 above	diting sof		l Studio	to be s	upplied	I								
PC software	-														
1: free basic softwar	re of Historical Viewer & Conf e Data Acquisition Studio (Re			orical V	/iewer +	Config	uration)								
Mounting type	s, power cord & swit	ch —													
O: panel mount, no power cord, no power switch panel mount, no power cord, power switch portable, UL & CSA power cord, power switch portable, VDE power cord, power switch portable, SAA power cord, power switch portable, BS power cord, power switch			6: portable, no power cord, power switch 7: panel mount, UL & CSA power cord, power switch												
Special option	IS -														

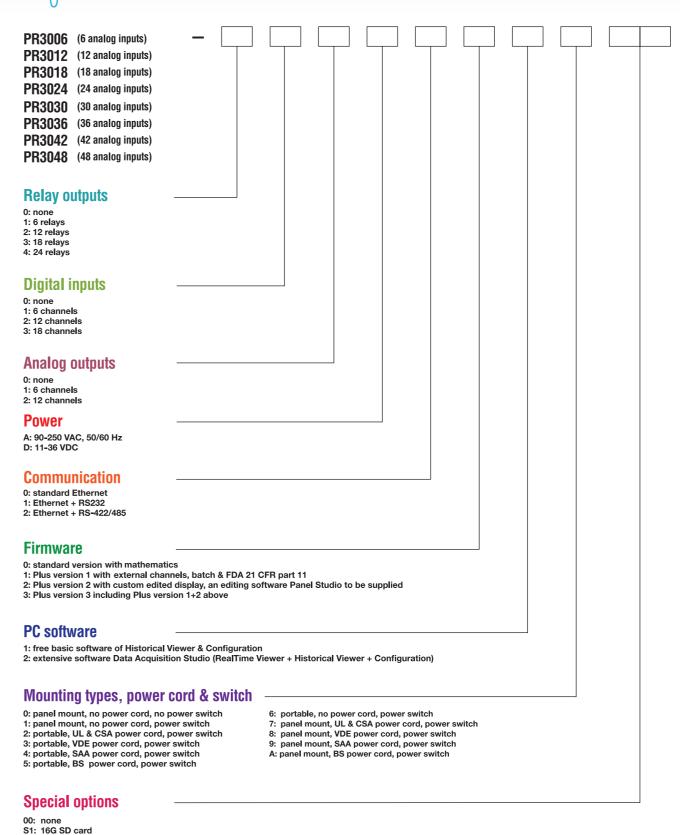
00: none 10: Process control card
S1: 16G SD card 11: Process control card + 16G SD card
S2: 32G SD card 12: Process control card + 32G SD card

*Note: DI - digital inputs

AO - analog retransmission output

Process control card ordering code needs to be chosen after Special options 10, 11, 12 been selected, please refer to page 13
Process control card cannot be chosen together with PR2003, PR2006, PR2012, PR2018 order codes 5, A, B, C, D nor with PR2024
(24 analog inputs)

PR30 Ordering Code



Brain Child

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