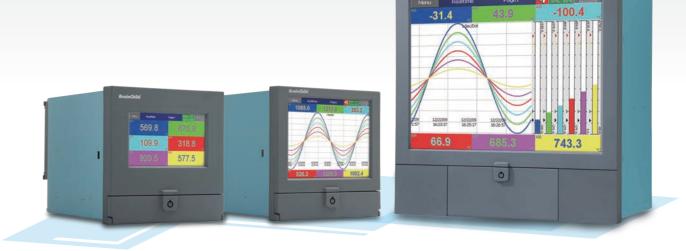
BrainChild

BrainChild



PR Series Paperless Recorders

Head Office:

Brainchild Electronic Co., Ltd. 209 Chongyang Road, Nangang Dist., Taipei 11573, Taiwan Tel: +886-2-2786-1299 Fax: +886-2-2786-1395

Website: www.brainchild.com.tw Email: sales@brainchild.com.tw service@brainchild.com.tw

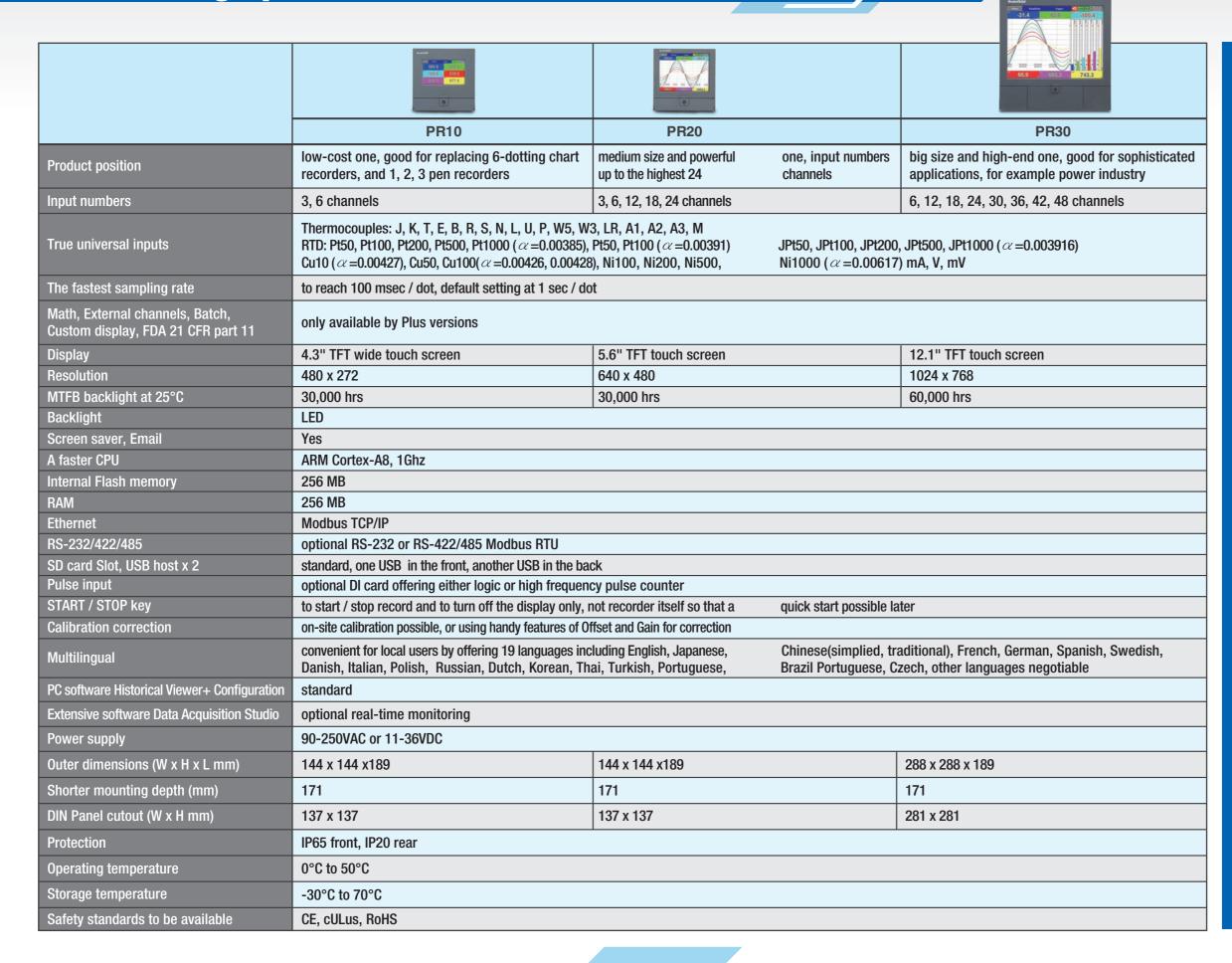
China Office:

Brainchild Electronic (Kunshan) Co., Ltd.
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Outstanding Specifications & Features

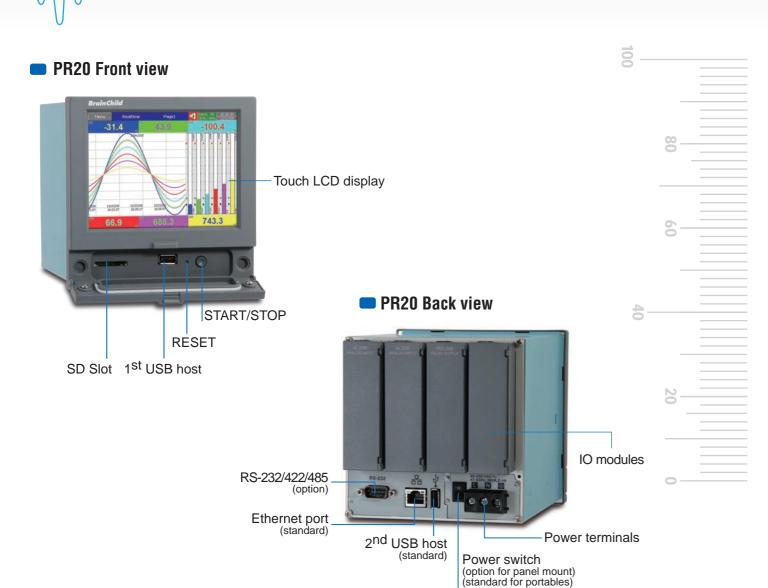


Overview

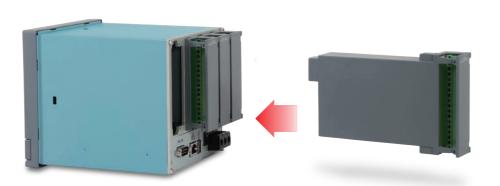
The new PR series paperless recorders are launched in full product range with outstanding specifications and features. PR series includes a low-cost PR10, a popular PR20 and a high-end PR30. Compared with the first generation VR series, PR series offers much more, for example recorders in 4.3" & 12.1" 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, 19 languages, IP65, and yet in shorter depth 167mm.

Smart Mechanism

Front view, Back view



10 modules easy for expansion



Expandable modules of inputs & outputs

AI206 6 AI (6 analog inputs)

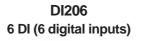




AI203



RO206







RD233

AO206 6 AO (6 analog outputs)







(4 Slots, up to 6 Al)





(4 Slots, up to 24 AI)



PR30 (16 Slots, up to 48 AI)

Security key

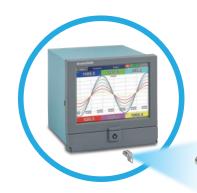
Portable recorders, Security key

Portable recorders







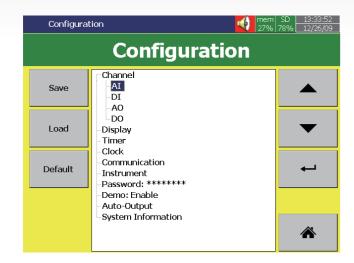


PR10 PR20

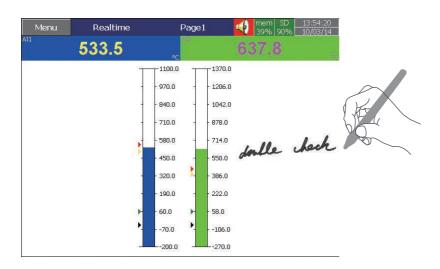
PR30

Friendly functions in recorders

Configuration in Tree Layout is easy for operation



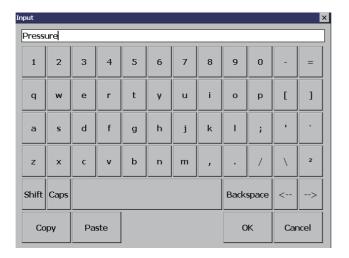
Handwriting messages are handy for users



80 60 40

Standard version of Firmware

Input name & Desc: For each input name and its description, users may key in many characters because of its long available space.



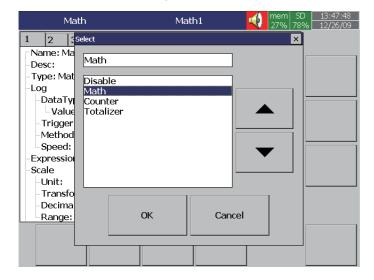
- Al: Analog input is offered various log speed in 100ms, 1, 2, 5, 10, 20, 30 Sec, 1, 2 Min/Dot.
- DI: Digital input is offered either normal Logic or high frequency Pulse.
- AO: In analog output, mA or V and its Expression can be defined.
- DO: Digital output/relay output can be enabled. Each DO card 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.
- **Web Server:** It is available with all the PR series of recorders as a standard feature. When this feature is enabled on recorders, the user can access real-time trends, data, events and alarms whereever there is internet.

Friendly functions in recorders

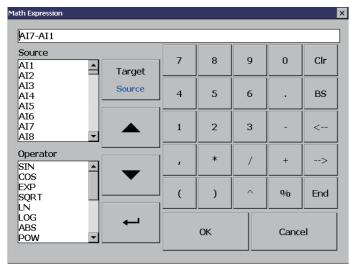
Plus version of Firmware

In addition to features of Standard firmware, Plus versions offer more features of Math, External Channels, Custom Display, Batch, FDA 21 CFR part 11.

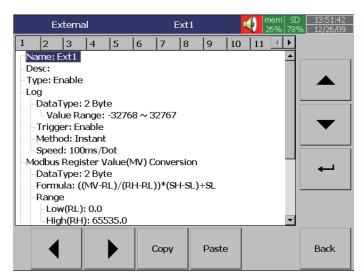
Math: It includes Math, Counter & Totalizer.



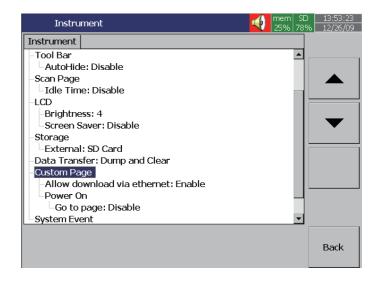
Math Expression is keyed in an easy way.



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

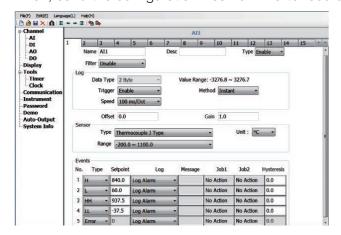


Free basic software

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

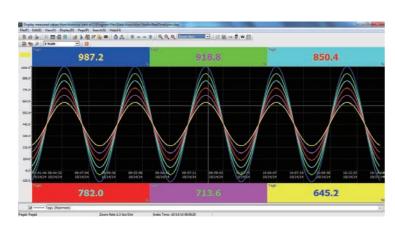
I. Configuration

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



II. Historical Viewer

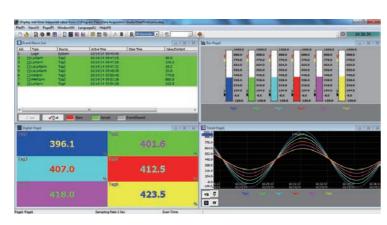
It can display historical trends, historical alarms, events, and then print it. It can search data by time, time period, tag, alarm, events and remarks. It also can export data in CSV format.



Extensive software Data Acquisition Studio

III. RealTime Viewer

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



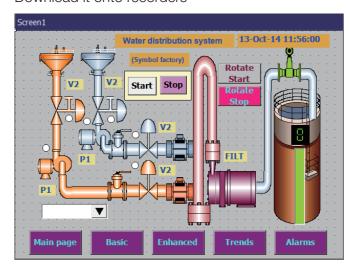
IV. Panel Studio

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



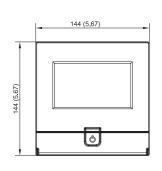


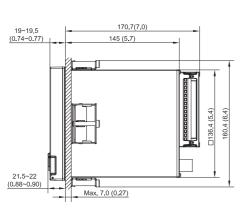
Installation

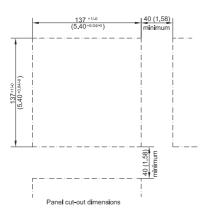
Ordering Code



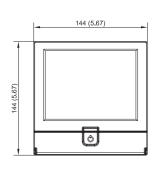
PR10

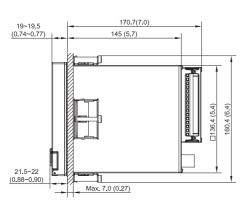


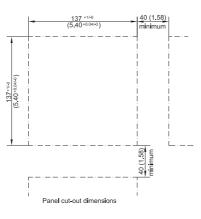




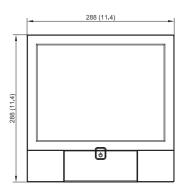
PR20

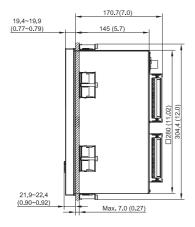


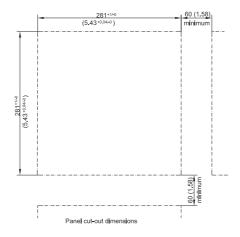


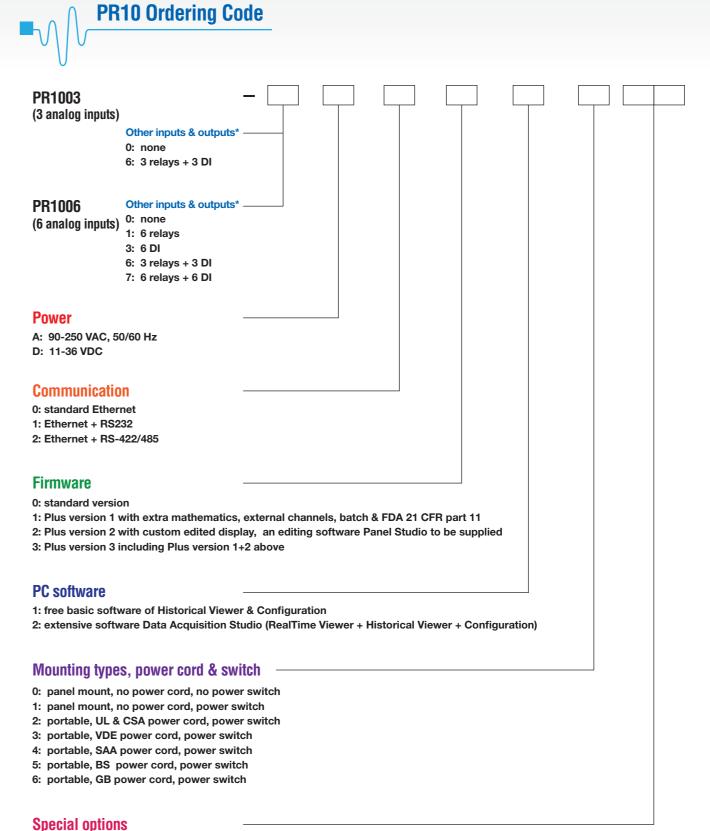


PR30









12

00: none S1: 16G SD card

S2: 32G SD card

*Note: DI - digital inputs

PR20 Ordering Code

U											
PR2003		-									
(3 analog inputs)	Other inputs & outputs*										
	0: none 6: 3 relays + 3 DI C: 3 relays + 3 DI + 6 AO										
PR2006 (6 analog inputs)	Other inputs & outputs* 1: 6 relays 3: 6 Dl 5: 6 AO 6: 3 relays + 3 Dl 7: 6 relays + 6 Dl A: 6 relays + 6 AO B: 6 Dl + 6 AO										
	D: 6 relays + 6 DI + 6 AO										
PR2012 (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 + 6 DI 8: 9 relays + 9 DI A: 6 relays + 9 AO B: 6 DI + 6 AO C: 3 relays + 3 DI + 6 AO										
PR2018 (18 analog inputs)	Other inputs & outputs* 0: none 1: 6 relays 3: 6 DI 5: 6 AO 6: 3 relays + 3 DI										
PR2024 (24 analog inputs)	Other inputs & outputs* 0: none										
Power											
A: 90-250 VAC, 50/60 Hz D: 11-36 VDC											
Communication 0: standard Ethernet 1: Ethernet + RS232 2: Ethernet + RS-422/485											
C: standard version 1: Plus version 1 with extra mathematics, external channels, batch & FDA 21 CFR part 11 2: Plus version 2 with custom edited display, an editing software Panel Studio to be supplied 3: Plus version 3 including Plus version 1+2 above											
PC software											
1: free basic software of Historical Viewer & Configuration 2: extensive software Data Acquisition Studio (RealTime Viewer + Historical Viewer + Configuration)											
Mounting types, power cord & switch —											
0: panel mount, no 1: panel mount, no 2: portable, UL & C: 3: portable, VDE po 4: portable, SAA po 5: portable, BS pov	power cord, no power switch power cord, power switch SA power cord, power switch wer cord, power switch	ch									
Cnocial ontion	10										

Special options

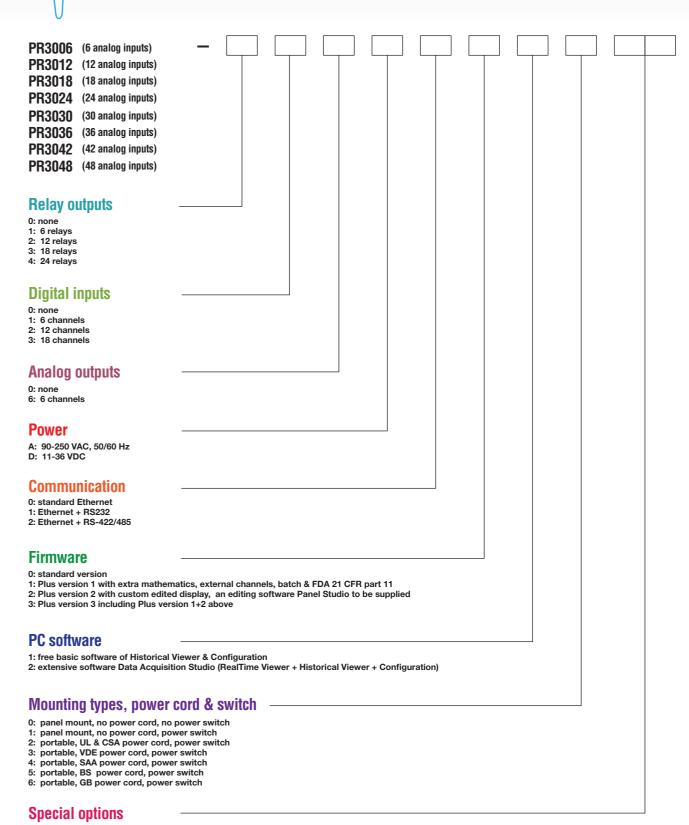
00: none S1: 16G SD card

S2: 32G SD card

*Note: DI - digital inputs

AO – analog retransmission output

PR30 Ordering Code



00: none S1: 16G SD card

S2: 32G SD card