



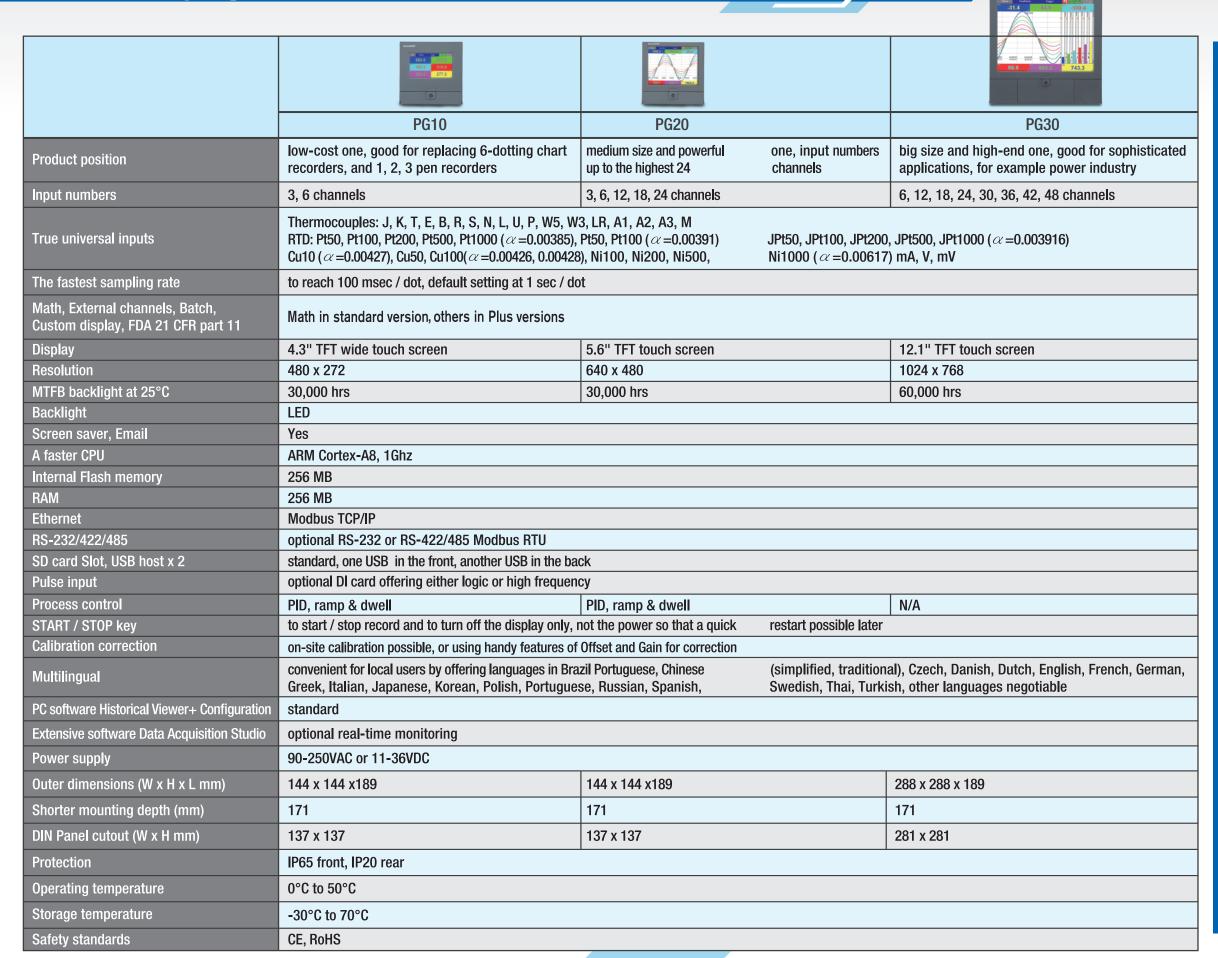


# PG Series Paperless Recorders



Industrial Process Measurement, Inc. 3910 Park Avenue, Unit 7 Edison, NJ 08820 732-632-6400 support@instrumentation2000.com http://www.instrumentation2000.com

### **Outstanding Specifications & Features**



### **Overview**

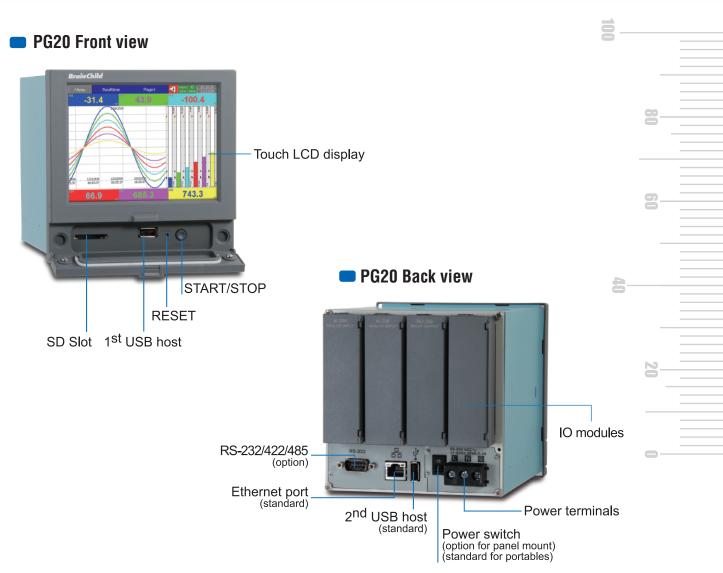
The new PG series paperless recorders are launched in full product range with outstanding specifications and features. PG series includes a low-cost PG10, a popular PG20 and a high-end PG30. Compared with the first generation VR series. PG series offers much more, for example recorders in 4.3" & 12.1" 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 171mm.

The new process control card for oven application
It makes PG10 & PG20 becoming process controller + recorder

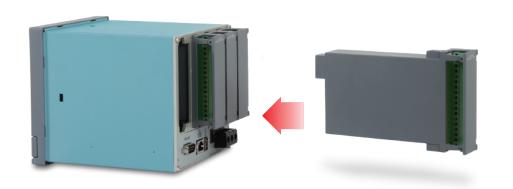


## **Smart Mechanism**

# Front view, Back view

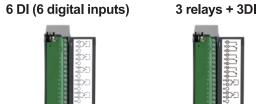


### 10 modules easy for expansion

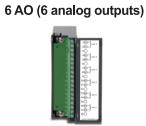


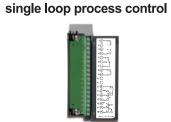
### **Expandable modules of inputs & outputs**



















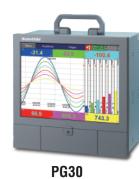
**PG20** (4 Slots, up to 24 Al)

PG30 (16 Slots, up to 48 AI)

### Portable recorders, Security key

### Portable recorders

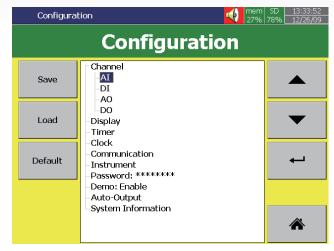




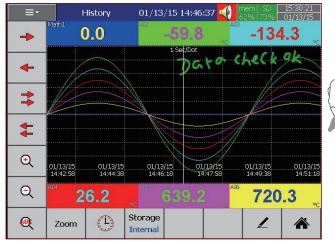


## Friendly functions in recorders

## Configuration in Tree Layout is easy for operation

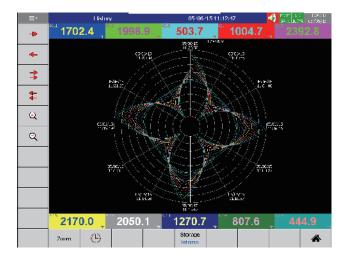


### **Handwriting messages are handy for users**



### Circular display (PG30 only)

For some industries preferred circular display, PG30 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.

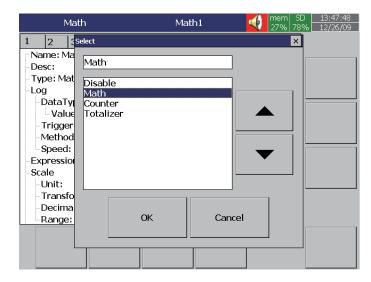
**System information:** It gives Firmware version number, Internal & External memory status, IP address, and IO card status of each Slot.

**Calibrate:** Sometimes the field calibration is required for high accuracy. In this case, a qualified engineer can do the necessary calibration.

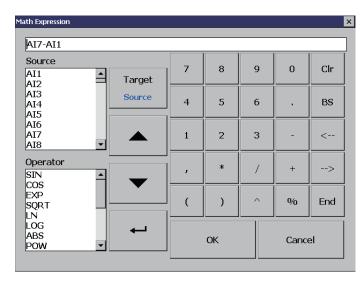
### Friendly functions in recorders

**Math:** Standard version includes mathematics

Math: It includes Math, Counter & Totalizer.



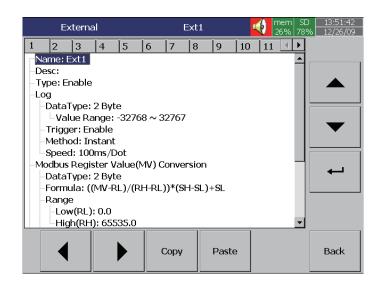
Math Expression is keyed in an easy way.



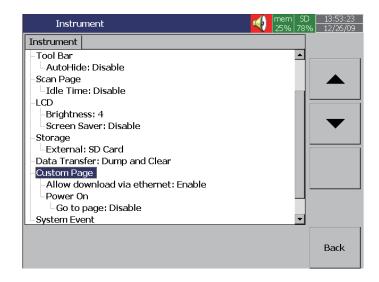


Plus versions offer more features of External Channels, Custom Display, Batch, FDA 21 CFR part 11.

**External Channels:** Besides Al & Dl inputs, PG recorders accept inputs through communication called External Channels. PG10, PG20 & PG30 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 PG 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**

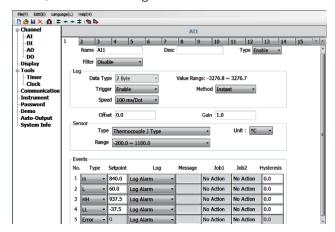


### Free basic software

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

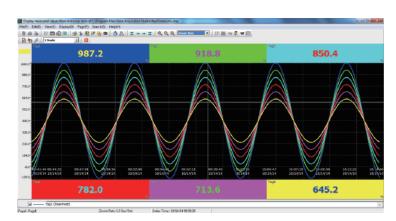
#### I. Configuration

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



#### **II.** Historical Viewer

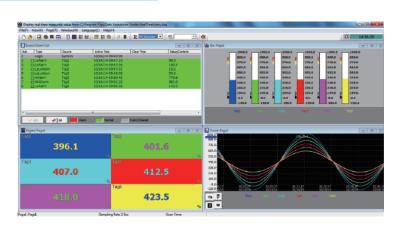
It can display historical trends, historical alarms, events, and then print it. It can search data by time, time period, tag, alarm, events and remarks. It also can export data in CSV format.



### **Extensive software Data Acquisition Studio**

#### **III.** RealTime Viewer

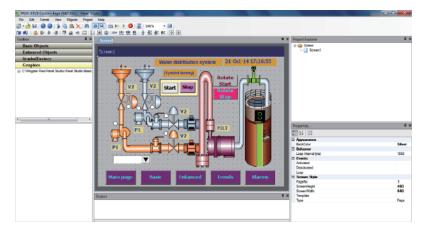
Besides Configuration & Historical Viewer, it offers additional software RealTime Viewer for real-time monitoring.



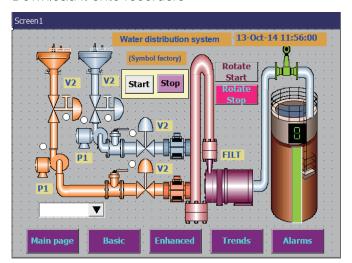
#### IV. Panel Studio

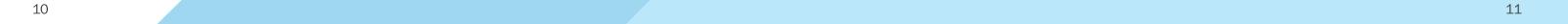
If Plus version 2 or 3 of Firmware is purchased, additional software Panel Studio is offered for editing custom display. The users can use it to edit specific displays on PC first, and then download it onto recorders. The custom edited displays will be additional pages to standard ones.

#### Edit it on PC



#### Download it onto recorders

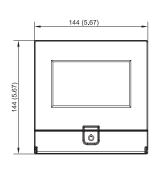


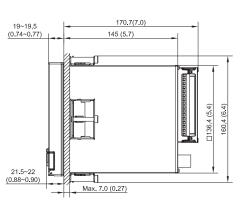


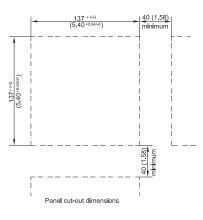
### **Installation**

# Dimensions in mm (in.)

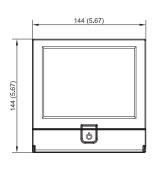
#### **PG10**

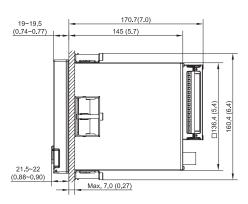


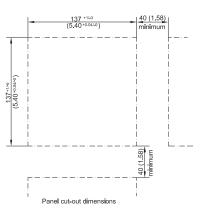




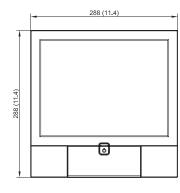
#### **PG20**

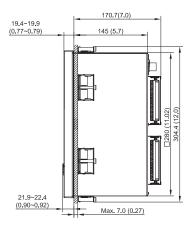


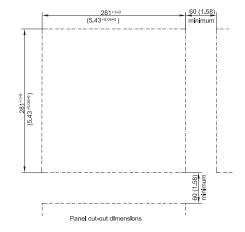




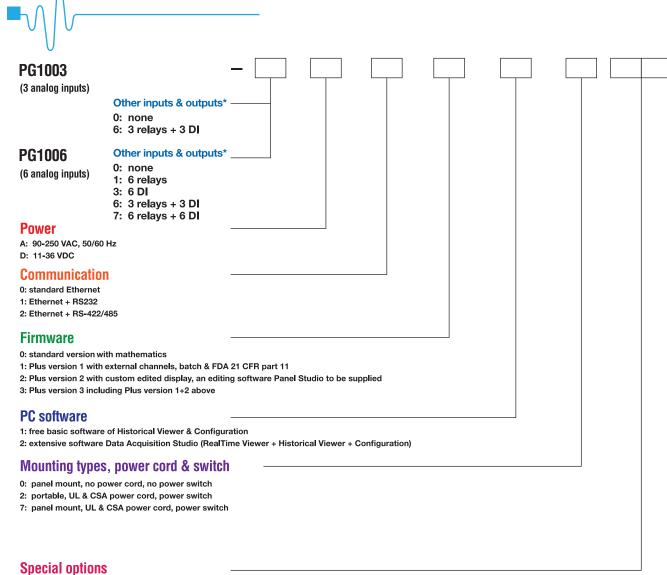
#### **PG30**







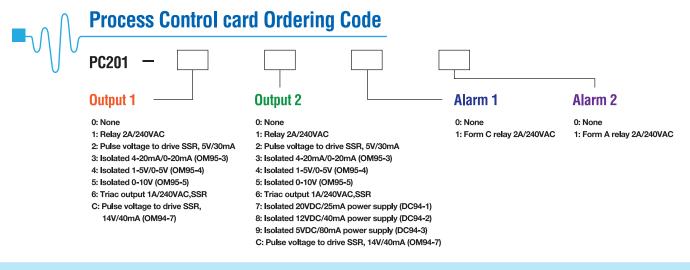
# **Ordering Code**



S1: 16G SD card

11: Process control card + 16G SD card

\*Note: DI - digital inputs

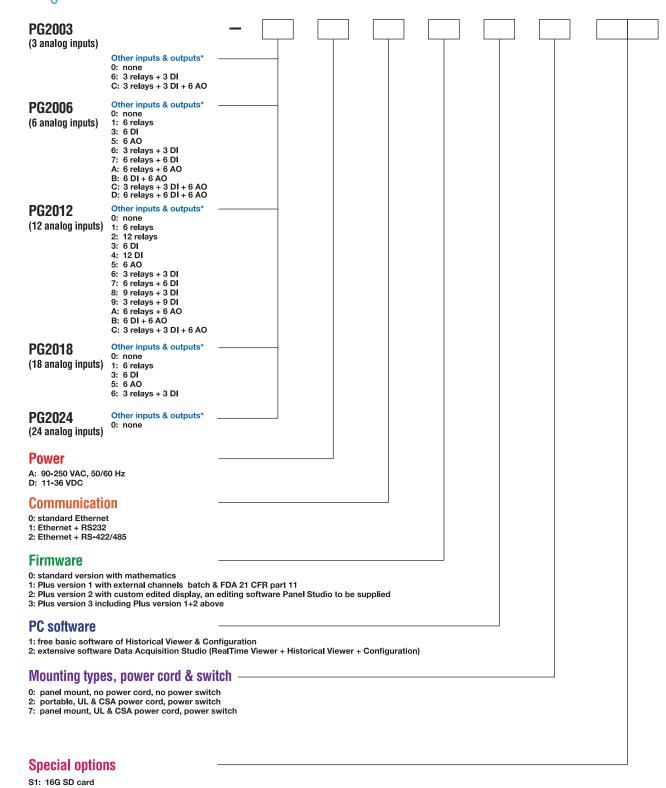


11: Process control card + 16G SD card

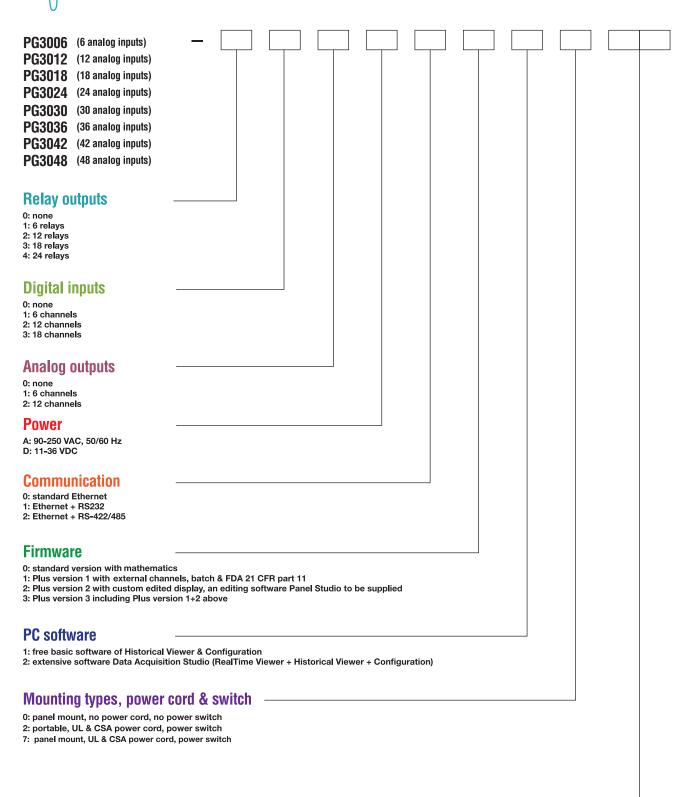
AO - analog retransmission output

\*Note: DI - digital inputs

### **PG20 Ordering Code**



**PG30 Ordering Code** 



#### **Special options**

00: none S1: 16G SD card

S2: 32G SD card