

MODEL and SUFFIX Code (GX90XA)

Model	Suffix code				Description
GX90XA					Analog Input Module
Number of channels	-4				4 channels (-H0 type only)
	-6				6 channels (-R1 type only)
	-10				10 channels (-C1, -L1, -U2, -T1, -V1)
Type	-C1				Current, scanner type (isolated between channels)
	-L1				DCV/TC/DI, low withstand voltage scanner type (isolated between channels)
	-U2				Universal, Solid state relay scanner type (3-wire RTD b-terminal common)
	-T1				DCV/TC/DI, Electromagnetic relay scanner type (isolated between channels)
	-H0				High speed universal, individual A/D type (isolated between channels)
	-R1				4-wire RTD/resistance, scanner type (isolated between channels)
—	-V1				DCV/TC/DI, high withstand voltage scanner type (isolated between channels)
		N			Always N
Terminal form		-3			Screw terminal (M3)
		-C			Clamp terminal*
Area			N		General

MODEL and SUFFIX Code (GX90XD)

Model	Suffix code				Description
GX90XD					Digital Input Module
Number of channels	-16				16 channels
Type	-11				Open collector/Non-voltage, contact (shared common), Rated 5 VDC
—		N			Always N
Terminal form		-3			Screw terminal (M3)
		-C			Clamp terminal
Area			N		General

MODEL and SUFFIX Code (GX90YD)

Model	Suffix code				Description
GX90YD					Digital Output Module
Number of channels	-06				6 channels
Type	-11				Relay, SPDT(NO-C-NC)
—		N			Always N
Terminal form		-3			Screw terminal (M3)
Area			N		General

MODEL and SUFFIX Code (GX90WD)

Model	Suffix code				Description
GX90WD					Digital Input/Output Module
Number of channels	-0806				8 channel DIs, 6 channel DOs
Type	-01				Input: Open collector/non-voltage contact (shared common), rated 5 VDC Output: Relay, SPDT (NO-C-NC)
—		N			Always N
Terminal form		-3			Screw terminal (M3)
Area			N		General

MODEL and SUFFIX Code (GX90XP)

Model	Suffix code				Description
GX90XP					Pulse Input Module
Number of channels	-10				10 channels
Type	-11				DC voltage/open collector/non-voltage contact (shared common), rated 5 VDC
—		N			Always N
Terminal form		-3			Screw terminal (M3)
		-C			Clamp terminal
Area			N		General

MODEL and SUFFIX Code (GX90EX)

Model	Suffix code				Description
GX90EX					I/O Expansion Module
Port	-02				2 ports
Type	-TP1				Twisted pair cable
—		N			Always N
Area			-N		General

MODEL and SUFFIX Code (GX90YA)

Model	Suffix code				Description
GX90YA					Analog Output Module
Number of channels	-04				4channels
Type	-C1				Current output (isolated between channels)
—		N			Always N
Terminal form		-3			Screw terminal (M3)
		-C			Clamp terminal
Area			N		General

MODEL and SUFFIX Code (GX90UT)

Model	Suffix code				Description
GX90UT					PID Control Module
Number of loops	-02				2 loops
Function	-11				8 DIs, 8 DOs
—		N			Always N
Terminal form		-3			Screw terminals (M3)
Area			N		General

MODEL and SUFFIX Code (GX90NW)

Model	Suffix code				Description
GX90NW					Network Module
Port	-02				2 ports
Type	-PN				PROFINET
—		N			Always N
Terminal form		-R			RJ-45 Connector
Area			N		General

Standard Accessories

Model	Product	Qty
GM10	SD memory card (1GB)	1
	Connector cover	1
GM90PS	Power cable (depends on the suffix code of the power supply connection)	1
	Interconnect screw (M3)	4
GM90MB	Interconnect screw (M3)	4

Optional Accessories (Sold Separately)

Product	Part Number/ Model
SD memory card (1GB)	773001
Shunt resistor for screw terminal (M3) (250 Ω ± 0.1%)	415940
Shunt resistor for screw terminal (M3) (100 Ω ± 0.1%)	415941
Shunt resistor for screw terminal (M3) (10 Ω ± 0.1%)	415942
Shunt resistor for clamp terminal (250 Ω ± 0.1%)	438920
Shunt resistor for clamp terminal (100 Ω ± 0.1%)	438921
Shunt resistor for clamp terminal (10 Ω ± 0.1%)	438922
Dummy cover	B8740CZ
Validation Documents (For /AS option)	773230

Application Software (Sold Separately)

Model	Description	OS
GA10	Data Logging Software	Windows 8.1/10/11 Windows Server 2012/2016/2019

- **Calibration certificate (sold separately)**
A calibration certificate for specific analog input modules.
- **Test certificate (QIC, sold separately)**
A QIC for specific data acquisition modules, power supply modules, module bases, or I/O modules.
- **User's Manual**
Product user's manuals can be downloaded or viewed at the following URL.
URL: www.smartdacplus.com/manual/en/

Equipment/Quality Predictive Detection tool

(This tool is required to create Predictive detection model and Profile waveform.
You need to apply online before purchasing the cloud version of Equipment/Quality Predictive Detection tool. <http://www.smartdacplus.com/>)

Cloud version

Model	Suffix code	Description
CE10		Cloud Equipment/Qualtiy Predictive Detection tool (Validity period : 12 months)
Optional code	/AU	Predictive Detection model download license for SMARTDAC+ 1 unit

Offline version

Model	Suffix code	Description
OE10		Offline Equipment/Quality Predictive Detection tool with Predictive Detection model download license for 1 unit

Model	Suffix code	Description
CE10L		Cloud Predictive Detection model download license
Number of units using the predictive detection model	-01	SMARTDAC+ 1 unit
	-03	SMARTDAC+ 3 units
	-05	SMARTDAC+ 5 units
	-10	SMARTDAC+ 10 units
	-20	SMARTDAC+ 20 units
	-50	SMARTDAC+ 50 units
	-A0	SMARTDAC+ 100 units

Model	Suffix code	Description
OE10L		Offline Predictive Detection model download license
Number of units using the predictive detection model	-01	SMARTDAC+ 1 unit
	-03	SMARTDAC+ 3 units
	-05	SMARTDAC+ 5 units
	-10	SMARTDAC+ 10 units
	-20	SMARTDAC+ 20 units
	-50	SMARTDAC+ 50 units
	-A0	SMARTDAC+ 100 units

Configuration example (with a supply voltage of 100-240 VAC, power inlet, universal input, and clamp terminal)

Single-unit configuration example

30 ch (analog input)	60ch (analog input)	100ch (analog input)
GM10-1E0 x 1	GM10-1E0 x 1	GM10-1E0 x 1
GM90PS-1N1D0 x 1	GM90PS-1N1D0 x 1	GM90PS-1N1D0 x 1
GX90XA-10-U2N-CN x 3	GX90XA-10-U2N-CN x 6	GX90XA-10-U2N-CN x 10
GM90MB-01N0 x 4	GM90MB-01N0 x 7	GM90MB-01N0 x 11
		

Multi-unit configuration example

120ch (analog input)	300ch (analog input)	420ch (analog input)
GM10-2E0 x 1	GM10-2E0 x 1	GM10-2E0 x 1
GM90PS-1N1D0 x 2	GM90PS-1N1D0 x 5	GM90PS-1N1D0 x 7
GX90XA-10-U2N-CN x 12	GX90XA-10-U2N-CN x 30	GX90XA-10-U2N-CN x 42
GX90EX-02-TP1N-N x 2	GX90EX-02-TP1N-N x 5	GX90EX-02-TP1N-N x 7
GM90MB-01N0 x 15	GM90MB-01N0 x 36	GM90MB-01N0 x 50
		

Paperless recorder GX/GP

With the touch panel, reliability meets user empowerment in an expanding range of applications.

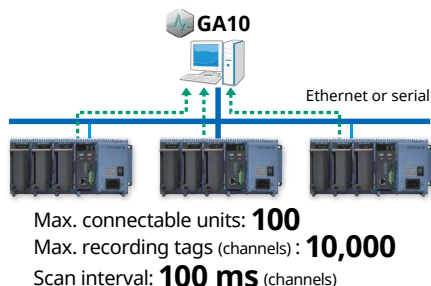


Modules and functions are interchangeable with the GM.

Data Logging Software GA10 (sold separately)

Centrally acquire data from multiple devices on a PC

GA10 is a PC based software package that acquires real time data from SMARTDAC+ data acquisition systems and other devices connected to a network. Connected PCs can monitor real time and historical data, which can be stored on a PC harddrive or centrally on a network drive.



Compatible with other models in addition to the GM!



GP10/GP20



WT series (power analyzers)

Supports many other models. For details, see the GA10 catalog.

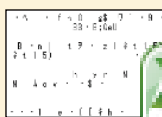
Aggregate data for monitoring!



Easy to read screen layouts provide operator friendly real time monitoring.

- Group channels any way you like
- Play back data up to recording start, even during measurement
- Instantly recognize alarms (in red)

Save the data all together!



Binary



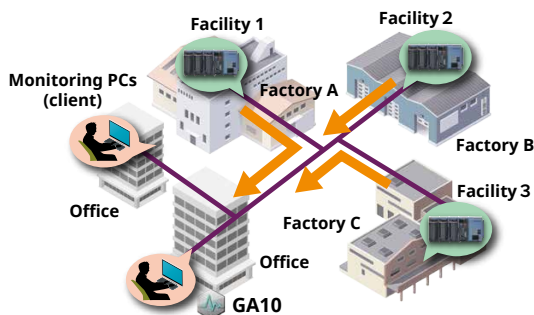
Excel

Data is stored in a binary tamper proof format preventing unauthorized access. Data can also be exported to excel format for data manipulation and analysis.

Application example

Data monitoring in manufacturing sites

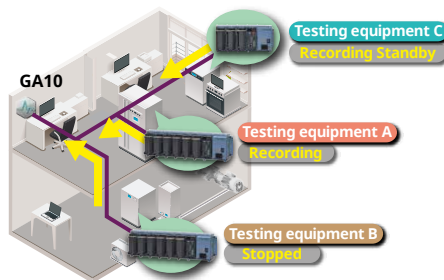
Monitor factory data from the office.
 You can also add clients and share data across multiple PCs.



Effect: No more moving around large factories to do work!

Recording data from multiple equipments

Saves testing/manufacturing equipment data on a PC. In addition to simultaneous acquisition, you can acquire data from different equipment at different timing (multilogging).



Effect: Manage all data on the PC, one set of equipment at a time!

WEB site

<http://www.smartdacplus.com/>



User Registration Request

Please register to the following Partner Portal Member Site.
 You can use various services such as confirmation of purchased product information, download of related materials and software.

Customer Portal Member Site ▶▶▶ <https://myportal.yokogawa.com/>



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NOTICE



Before operating the product, read the instruction manual thoroughly for proper and safe operation.

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