

Easy connection to PROFINET devices

SMARTDAC+ series

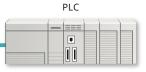
Easily connect to a PROFINET network with the GX90NW Network Moodule

SMARTDAC+ with the GX90NW module installed connects to PROFINET networks.









Connecting to a PROFINET network will simplify your system and significantly reduce engineering costs

- > Send and receive process data, without programming
- SMARTDAC+ operations can be controlled by the PLC program for a fully automated system

SMARTDAC+ is used in a wide range of applications.



GX90NW





Foods



Chemical plant



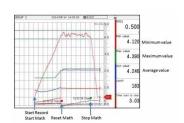
Energy

Application Example (Sterilization Equipment for Pharmaceuticals)

The SMARTDAC+ is connected to the sterilizer's PLC for a secure and reliable exchange of batch information for independent recording and reporting.



Sterilization Equipment



Benefits for End Users

- Seamless integration with PLC network infrastructure
- Secure data recording compliant with pharmaceutical industry regulations (21 CFR Part 11, option /AS)
- Standard solution for batch recording and reporting (batch name, lot number, batch text entry fields)
- Independent data analysis and mathematical operations (option /MT)
- > Standard displays for monitoring (trend, digital, bargrah, alarm)
- Customized HMI (option /CG)



Easy connection to PROFINET devices

SMARTDAC+ series

GX90NW Network Module

Mounting and connection

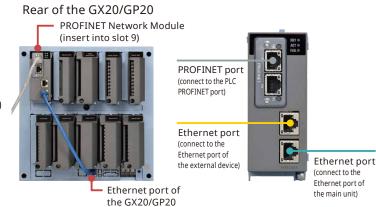
GX90NW location

GX20/GP20 : Slot 9
GX10/GP10 : Slot 2
GM10: Leftmost

*Subunits cannot be connected when using the GX90NW.







Installing device profiles

It is necessary to install the device profile (GSDML file) of the SMARTDAC+ to the PLC configuration tool. The PLC communicates with SMARTDAC+ based on the information in the GSDML file. You can download GSDML files from our website (www.smartdacplus.com/software/en/).

SMARTDAC+ data accessible from the PLC

Cyclic communication

PLC exchanges data according to GSDML file information

- Readable data: Input/Output and Math measurement and status information, and communication channels status information
- · Writeable data: Communication channel measurements
- *There are limits to the channels that support cyclic communication.

Acyclic communication

Data exchange/control by a PLC ladder program

- · Target channels: All input/output channels (except expansion unit), all math/communication channels
- Readable data: Channel measurements/status information
- Writeable data: Communication channel measurements, AO/DO channel output values

< Control operations >

Record start/stop, math start/stop/reset, writing messages, reading and writing batch information, reading and writing alarm settings, alarm ACK

Model and suffix codes

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

^{*} For more details, please see the General Specifications (GS 04L53B51-01EN).

Co-innovating tomorrow and Oprex are trademarks or registered trademarks of Yokogawa Electric Corporation. All brand or product names of Yokogawa Electric Corporation in this bulletin are trademarks or registered trademarks of Yokogawa Electric Corporation. All other company brand or product names in this bulletin are trademarks or registered trademarks of their respective holders.

Specifications

Model		GX90NW			
	Communication speed	10BASE-T/100BASE-TX (Auto)			
Ethernet	Port	2 ports			
port	Connection cable	STP cable, CAT5 or later			
	Communication range	100m			
	Communication speed	100BASE-TX full duplex			
PROFINET	Port	2 ports			
port	Connection cable	PROFINET communication cable			
	Communication range	100m			
PROFINET communication specifications		Type: PROFINET IO-Device Conformance class: B Support for cyclic and acyclic communication			

YOKOGAWA ELECTRIC CORPORATION

Edge Solution Division

YOKOGAWA CORPORATION OF AMERICA YOKOGAWA EUROPE B.V.

YOKOGAWA ENGINEERING ASIA PTE. LTD.

http://www.yokogawa.com/ http://www.yokogawa.com/us/ http://www.yokogawa.com/eu/ http://www.yokogawa.com/sg/

Subject to change without notice All Rights Reserved. Copyright © 2022, Yokogawa Electric Corporation

