Notes for obtaining approval of marine standards

Thank you for purchasing graphic operator interfaces, Pro-face® GP4000 Series made by Digital Electronics Corporation.

The following describes restrictions for obtaining type approval of marine standards.
When using these products for your system for which you plan to obtain type approval of marine standards from classification societies, please fully understand the proper handling and the features of the products following the restrictions.

For a certification and a certification number of each classification society, see our homepage.
Our homepage: http://www.pro-face.com/worldwide.html

1. Obtained type approvals
   For GP4000 series (except GP-4100 series and GP4000M series), the obtained type approvals of marine standards are as follows; (as of January 2013)

American Bureau of Shipping	(ABS)
Bureau Veritas	(BV)
China Classification Society	(CCS)
Det Norske Veritas	(DNV)
Germanischer Lloyd	(GL)
Lloyd's Register	(LR)
Nippon Kaiji Kyokai	(NK)
Registro Italiano Navale	(RINA)

2. Applicable Products
   The type approvals have been obtained for the following models in GP4000 series (except GP-4100 series and GP4000M series).

Series	Models
GP-4600 Series	PFXGP4601TAD, PFXGP4601TMD, PFXGP4601TADC, PFXGP4603TAD
GP-4500 Series	PFXGP4501TAD, PFXGP4501TMD, PFXGP4501TADC, PFXGP4503TAD, PFXGP4501TADW
GP-4400 Series	PFXGP4401TAD, PFXGP4401WADW
GP-4300 Series	PFXGP4301TAD, PFXGP4301TADC, PFXGP4303TAD, PFXGP4301TADW, PFXGP4301TADWC
GP-4200 Series	PFXGP4201TAD, PFXGP4203TAD, PFXGP4201TADW

3．Restrictions

The following describes restrictions for obtaining type approval concerning GP4000 series (except GP-4100 series and GP4000M series).

・For installation, wiring and use of the products, be sure to read GP4000 series instructions or GP4000 series hardware manual.

・Install the products on the metal enclosure or control panel.

・Install the noise filter (Schaffner Type FN2070-3-06 or equivalent) on the power-supply line of the products (except GP-4600 Series and GP-4500 Series).

・Attach a ferrite core to the power-supply line and the communication line of the products. (Except GP-4600 Series).

Conditions for installing a ferrite core

Series	Interface	Qty	Number of turns	Ferrite Core
GP-4500	Power-Supply Line	1	2	Seiwa Type E04SR401938 or equivalent
	COM1	2	3	
	COM2	2	2	
	LAN	1	3	
	USB1	1	3	Seiwa Type E04SR301334 or equivalent
	USB2	2	3	
GP-4400 GP-4300	Power-Supply Line	1	2	Seiwa Type E04SR401938 or equivalent
	COM1	1	2	
	COM2	1	2	
	LAN	1	3	
	USB1	1	3	Seiwa Type E04SR301334 or equivalent
	USB2	1	3	
GP-4200	Power-Supply Line	1	2	Seiwa Type E04SR401938 or equivalent *For supported models only
	COM1	1	2	
	COM2 *	1	2	
	LAN *	1	3	
	USB1	1	3	Seiwa Type E04SR301334 or equivalent
	USB2	1	3	

・For the number of turns, it counts up every time a cable is put through a ferrite core.
・Attach the ferrite core as close to the product as possible.
・When attaching the ferrite core to the power-supply line, attach it closer to the product than the noise filter.