

High Performance Vector Control Inverter

# **FRENIC-VG**

**PROFIBUS-DP Interface Card**

**OPC-VG1-PDP**

**Product Specification**

Fuji Electric Co.,Ltd  
Corporate R&D Headquarters  
Drive Development Project Dept.

	Date	Sign
Written by	04-Feb-'13	K. Sato
Checked by	05-Feb-'13	H. Hayashi
Approved by		H. Hayashi

## 1. Overview

This product is an interface card for connecting with Fuji High Performance Vector Control Inverter FRENIC-VG series and PROFIBUS DP master, such as PLC and a personal computer.

Operation and speed commands are given, or setting change and a check of a function code are attained from PROFIBUS DP master.

## 2. Specification

### 2-1. Connection Ports

This card can be connected to C- port on the inverter.

### 2-2. Applicable ROM Version

This card corresponds to the following inverter software version.

A software version can be checked on the maintenance information of a touch panel.

MAIN = H1 0020 or later, MTR= H2 0020 or later

### 2-3. Specification

Table1 Specification

Item	Specifications	
Transmission specification	RS-485 communication	
Transmission speed	9.6 kbps to 12Mbps	
Total extended distance	100m (at 12Mbps) to 1200m (at 9.6kbps)	
Number of words to be transmitted	20 words at maximum (Input area 10 words/Output area 10 words)	
Communication connector	Detachable 6-pin terminal block (Phoenix Contact MC1.5/6-STF-3.5)	
Rotary switch SW1, SW2	Setting of node address. You can assign any node address from 1 to 99. You can also use the inverter function code U13 to set node address from 100 to 125.	
Status display LED PWR, ERR, ONL, OFFL	PWR : Lights in green at normal communication. Blinks in red at abnormal communication. ERR : Blinks in red at setting error. ONL : Lights in green at normal communication. OFFL : Lights in red at abnormal communication.	
PROFIBUS DP version	DP-V0	
Operation	Operation command	Command issued using CTW (control word) or command issued using function code S06
	Speed command	Command issued using MRV or command issued using control function code S01
	Operation status output	Status monitor using STW (status word) Monitoring of motor speed using function code M code and torque current command
Option function code	o30, o31, o122~125, o160~163, U01 to U13	
Protective function	<i>er4</i> : Network error (PROFIBUS communication error) (*2) *Minor communication failure: You can set operation at occurrence of <i>er4</i> alarm using o30 or o31. *Serious communication error: <i>er4</i> alarm is issued immediately.	

## 3. Outline

SA5A0380

## 4. Revision History

INDEX	Modification	Page	Date	Written by	Checked by	Approved by