YASKAWA

YASKAWA AC Drive Option JOHB-SMP3 Communication Protocol BACnet/IP Supplemental Technical Manual

Introduction

This supplemental technical manual describes the functions added with a JOHB-SMP3 software upgrade S8213(BACnet/IP:Ver7003)*1. Read this supplement to make sure that you use the option correctly. Read this manual together with the "Quick Installation Procedure (TOBP C730600 0H)" that is included with the product and the "JOHB-SMP3 BACnet/IP Technical Manual (SIEP C730600 0M)" that you can find on our documentation website. Always observe the safety messages and precautions to make sure that you are using the product correctly.

*1 JOHB-SMP3 option cards have an overall software version and a separate software version for each communication protocol. Check the PRG number on the purchased box for the overall software version. Install the option, start the BACnet/IP communication protocol, and view monitor U6-97 to check the BACnet/IP software version.

Modified Contents

This supplemental technical manual explains newly added functions.

1. Support U1000

Document No.: EZZ025102<0>
Prepared in July 2026

1. Support U1000

The JOHB-SMP3 BACnet/IP communication protocol now supports the U1000.

When using the JOHB-SMP3 BACnet/IP option with the U1000, the software versions must satisfy both of the following requirements:

- JOHB-SMP3 (BACnet/IP): PRG: 7003 or later *2
- U1000: PRG: 1027 or later *3

*2 To check the software version of the JOHB-SMP3 (BACnet/IP), start the BACnet/IP communication protocol and refer to parameter U6-97 [OPT SPARE 4].

*3 To check the software version of the U1000, refer to the “PRG” field on the nameplate.

◆Compatible Products

Product Series	Model(s)	U1000 Software Version
U1000	CIMR-UxxAxxxx	≥ 1027
	CIMR-UxxExxxx	
	CIMR-UxxPxxxx	
	CIMR-UxxWxxxx	

◆Related Drive Parameters and Monitors

For BACnet/IP objects supported by the U1000, refer to Chapter 6, “Related Drive Parameters” in the JOHB-SMP3 BACnet/IP Communication Technical Manual (SIEP C730600 0M).

This document describes only the changes from the Technical Manual. The modified portions are underlined in the relevant sections.

The following parameters and monitors are not available for use with the U1000.

No	Name
F6-15	Comm. Option Parameters Reload
F6-16	Gateway Mode
U4-75	Communication OPT Protocol
U4-76 - U4-78	MAC Address 1
U4-79 - U4-81	MAC Address 2
U4-82 - U4-84	MAC Address 3

◆BACnet/IP Objects Supported

For BACnet/IP objects supported by the U1000, refer to Chapter 7, "BACnet/IP Objects Supported," in the JOHB-SMP3 BACnet/IP Communication Technical Manual (SIEP C730600 0M).

This document describes only the changes from the Technical Manual. The modified portions are underlined in the relevant sections.

■Analog Value Objects

Object ID	Object Name (Network Display, if Different)	Modbus Register (Hex.)	Range	Unit	PV Access
AV33	Drive kWh consumed (kWh consumed)	**0820 - 0822**	0 - 999999999	kWh	R
AV34	**Drive kWh Regenerated (kWh Regenerated)**	**0823 - 0825**	**0 - 999999999**	**kWh**	**R**
AV39	**Drive Lo/Re Status*4**	**-**	**1-2**	-	R

***4 AV39 indicates whether run commands from the option are accepted.**

- **1: Remote (run from the option is accepted)**
- **2: Local (run from the option is not accepted)**

■Binary Input Objects

The following objects are not available for use with the U1000.

Object ID	Object Name (Network Display, if Different)	Modbus Register (Hex.)	Active Text	Inactive Text	PV Access
BI31	Safe Torque Off HW Status (Saf Trq Off Hw Stat)	0020: Bit 12	ALARM	OK	R
BI32	Safe Torque Off Status (Saf Trq Off Stat)	0020: Bit 13	ALARM	OK	R

■Binary Value Objects

The following objects are not available for use with the U1000.

Object ID	Object Name (Network Display, if Different)	Modbus Register (Hex.)	Active Text	Inactive Text	PV Access
BV60	Emergency Override Drive Reverse (Em Over DRV REV CMD)	Internal	ON	OFF	C
BV63	Emergency Override Drive Forward (Em Over DRV FWD CMD)	Internal	ON	OFF	C