[Proposal for minimizing application build time] Much easier monitor/parameter setup of FRENIC inverter by supporting its loader protocol

V9 supports Fuji Electric's FRENIC loader protocol. You can monitor or set parameters of FRENIC via V9. Because you can change the parameters even while connecting V9 and FRENIC with a single cable, you do not need to go near the inverter.

Easy parameter setup with a single cable



Use FRENIC loader protocol!



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Settings

Setting example (using USB cable between the V9 and the PC)

[Requirements]

(1) V-SFT-6 (2) LadderComOp (3) FRENIC Loader3.3

[Settings]

(1) V-SFT-6

Go to [System Setting] > [Hardware Setting] and set as shown below.

1) Select [FRENIC Series (Loader)] from [Connection Device Selection] dialog box. Set the connection mode to [1:1]. Set other parameters as well.

Connected Device Themic outrollar/Servolt/weeter Maker Fuil: Excite Default Connected Network	
Maker Fuil Electic Model FRENC Series (Loader) Taget Port No. CN1 Bacer(Devices) Frish Cancel Terrer Port No. Frish Cancel Terrer Port No. Ter	
Model FRENC Series (Looder) Connection Mode Target Port No. DN1 Signal Level Boost Dension2 Signal Level Signal Level Parity Finish Cancel Signal Level Target Port No. Finish Cancel Signal Level Signal Level Signal Level Signal Level	
Target Port No. ONI Board Parts Devices 2000/9 Device Port No. Devices 2 Port No. Po	1:1
Target Port No. DN1 Data Largeth Stop Dr Parity Target Port No. Finish Cancel Terretor Target Port No. Terretor	19200BF
Bacer/Device J. Finish Cancel Tarret For No. Nerver Send Device J. Send De	B-Bit
Finish Cancel Party Target Port No. Terretor Utimet 100msec) Send Delay Timet (100msec) Sant Timet Accel Sant Timet Accel Commerces Acceleres Marchine	I-Bit
Target Port No. 1970100 Time-out Time(*100mcc) Serd Deby Time(*acc) Surt Time(*acc) Code Tort Process Come Terre Medition	ven
Terrors Terrors Time(*100msec) Gent Delay Time(*naec) Start Time(*naec) Otto Time(*naec) Come Terrors Javelline Come Terrors Javelline	
inervoir interviewines; Send Ober, Time(*nesc) Start Time(*nesc) Code Text Process Come Terror Averline	20
Start Time(*eac) Code Tost Process Come Fore Merdine	10
Code Text Process Comme Frere Hardling)
Text Process Comm Error Handling	DEC
Comm Error Handling	.SB->M
Contra Francisco	Stop
🖂 Detail	
Priority 1 (1) (1) (1)	1
System device(sc) V/ Compatible	None
□ larget Settings	

2) Click [Ladder Transfer] and check the port where the inverter is connected. Select [USB B].

Ladder Transfer Setting	X
Use ladder transfer with the PLC connected to CN1	
JSB B 🚽	Detail Setting
PLC1 Fuji Electric FRENIC Series (Loader)	
Use ladder transfer with the PLC connected to MJ1	
Use ladder transfer with the PLC connected to MJ2	
Use ladder transfer with the PLC connected to LAN	
	OK Cancel

(2) LadderComOp

Select arbitrary [Used Port] and [USB] then click [Online].



		ONLI
		OFFL
PC-	MONITOUCH	
Used Port	€ USB	
СОМ9 -	C Ethernet	
Virtual Port CDM2		When connected with MITSUBISHI ELECTRIC series CPU, it does flow control.
		Add in the task tray.
		Hid

(3) FRENIC Loader3.3

Go to [Setup] > [Communication setting] and select [RS485 Data in Inverter]. Baud rate must be the same as the one set in V-SFT-6. For [Port], set the same port as [Used Port] in LadderComOp.

	Communication Setting				Ladder Transfer Set	ting		
	Tareet ESt85Data in Inverter Connection Jist	PLC	1 Properties Fuji Electric FRENIC Series	Cauter Hansiel Setting				
		Re	Reset to Default					
		8	Communication Setting					
	C USB		Connection Mode	1:1				
	• RS-485		Signal Level	BS-422/495	Lauren	1		
(0)			Baud Rate	19200BPS			OFFLINE	
(2)	Eort COM9 -		Data Lengin	0 BR	- 00			
	Baudirate 19200 Bool -		Stop Bit	I-Bit	10	Monifooch		
(1)	Reserves lives they		Target Part No.	1 1	Used Port	USB		
· /	Elow control RTS		Retriale	3	COM9 💌	C Ethernet		
			Time-out Time(*100msec)	30				
	Patry times 1 time -		Send Delay Time(*msec)	10	Virtual Port		When connected with	
			Start Time(*sec)	0	COM2		MITSUBISHI ELECTRICA	
	limegut 1.5 [s]		Code	DEC			control	
			Text Process	LSB->MSB			ôdd in the task trau	
	Connected check		Comm. Error Handling	Stop			, Hour tore tore tore	
		•	Detail				END	
	FRENIC Loader3.3	(1) V-SFT-6		(2) Lado	derCom	QD	

*For further information, please refer to [V9 Reference Manual 2 / chapter 12: Ladder Transfer].

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