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主题: 使用带有(RS232-9针)接口的 PanelView600 与 SLC500 的通讯。

PanelView600 型号: 2711-K6C5 PV600 Color Key

Ports: Physical—RS232 Protocol: DH485

SLC500 Processor 型号: 1747-L551B 5/05 CUP-16K Mem. OS501 Series C

组态步骤:

1. RS-232( DH-485 Protocol ) Connection to SLC 5/05 (Point to Point)



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Important: You must configure the Channel O Port of the SLC 5/05 controller for DH485 communication using the RSLogix 500 software.

Note:使用 RS232(DF1 Protocol)下载 SLC5/04 程序组态时,当你把 Chnannel 0 设置为 DH-485 协议时,会出现通讯连接冲突,导致用原来的串口线(DF1 Protocal)无法接通 SLC5/04,处理器的故障灯出现红色闪烁状态。

Fix:停电,把 SLC5/05 处理器从槽中拔出来,摘掉连接电池的连线,然后把 GND, VDD 引脚进行短路(持续 60s),此时处理器恢复回出厂缺省状态(原来存储在处理器里的程序将会丢失!)

2. 使用带有 RSLinx (Above Ver 2.02) 软件的 PC 与 PV600 进行通讯:

驱动程序: 1747-PIC/AIC + device

(Note: Possible Not available in Win2000 OS)

2.1. 在驱动程序下拉列表里选择:

## Configure Drivers

_	- à	veileble Driver Types'	
	~	vallable bilvel types.	
		PLC-5 (DH+) Emulator driver 🗾	<u>A</u> dd New
		RS-232 DF1 devices	
		Ethernet devices	
Г	-C	Ethernet/IP Driver	
		1784-KT/KTX(D)/PKTX(D)/PCMK for DH+/DH-485 devices	
		1784-KTC(X) for ControlNet devices	Status
		DF1 Polling Master Driver	Bunning
		1784-PCC for ControlNet devices	Rupping
		1784-PCIC(S) for ControlNet devices	Rupping
		1747-PIC / AIC+ Driver	Running
		DF1 Slave Driver	hunning
		S-S SD/SD2 for DH+ devices	Kunning
		Virtual Backplane (SoftLogix58xx)	
		DeviceNet Drivers (1784-PCD/PCIDS, 1770-KFD, SDNPT driver	
		PLC-5 (DH+) Emulator driver	
		SLC 500 (DH485) Emulator driver	
		SoftLogix5 driver	
		Remote Devices via Linx Gateway	

添加该驱动程序,这时可能会出现以下故障界面:



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停止运行 RSLinx, 取消 Always Run As Service 选项:



## 2.3 组态界面:

Configure 1747-F	PIC / AIC+ device	? ×
	Device AB_PIC-1	
Comm Baud	COM2 Station Number (Dec.) 01 19200 Max. Station Number 31	
ОК	Cancel <u>D</u> elete <u>H</u> elp	

Note: Station Number is not equal to the PV600 Node number!

组态完成后,重新启动计算机,这时 RSLinx 与 PV600 建立号了通讯连接,如图示:



个新项目:

(1)、运行 PanelBuilder32, 新建一个项目, 如图示:

Create New Application	? >
Application	OK
New	Cancel
Selected	Help
2711-K6C5 PV600 Color Key, FRN 4.10-4.xx	
PanelVi ew	
Type: Protocol:   PV1400 ControlNet 1.5   PV300 DeviceNet   PV300 DF1   PV550 DH4   PV800 DH485   Multiple Language Support (French, German, Italian,	oad th oad & Touch Spanish an
🔲 Set As Default Terminal Sel, atalog & Revis	ion Numbers <
Catalog and Version	
2711-K6C3 PV600 Color Key, FRN 4.10-4.xx 2711-K6C5 PV600 Color Key, FRN 4.10-4.xx	* •
Ports	
Physical: RS232 Protocol: DH485 Physical: None Protocol: None	

输入项目名: New,选择 PanelView 的类型: PV600,通讯协议: DH-485,选择 PV600 具体的系列号和版本

号: 2711-K6C5 PV600 Color Key, FRN 4.10-44. XX

(2)、Application Setting→Communication Setup,设置与之通讯的 SLC500 处理器。如当前的处理器是 SLC 5/05, Node

Address:1

Node Name: Slc500, 如图示:

Commu	unications Setup - DH	485		? ×
Ter Nod 2	twork Nodes	cimum de	<u>B</u> aud Rate: 19200 ▼	<u>O</u> K <u>C</u> ancel <u>H</u> elp
*	Node Name	Hode 1dd	Hode Typ	e
	s1c500	1	SLC 5/05	
	End of Node List	_		
	1			

(3)、编辑 Control Tags, 建立与 SLC500 通讯的数据标签,该标签名任意设定,其地址则应对应具体的 SLC500 寄存器地址,如图示:

Tag Name: N1

Data Type: Signed Integer

Node Name: S1c500

Tag Address: N7:0

Tag Form		?
Tag Name:	D <u>a</u> ta Type	OK
N1	Signed Integ	er / IN V Cancel
Description		Help
		A V
<u>N</u> ode Name:		Tag <u>I</u> nitial
s1c500	▼	0
Tag Address:	U <u>p</u> date Freque	ncy:
N7:0	1	•
_Scaling	Data Entry	Limits
<u>S</u> cale O <u>f</u> fset	Min:	Ma <u>x</u> :
1 0	-32768	32767

(4)、检查没错后,下载项目程序: File→Download,如图示:

Download File	?
Application Name: a_b	OK
Transfer Trans	Cancel
RSLinx Network	Help
Select Destination:   Autobrowse Refresh B Browsing - node 0 found   Horkstation, NEW2 Horkstation, NEW2 Doing - node 0 found   Horkstation, NEW2 Horkstation, NEW2 Doing - node 0 found   Horkstation, NEW2 Horkstation, NEW2 Doing - node 0 found   Horkstation, NEW2 Horkstation, NEW2 Doing - node 0 found   Horkstation, NEW2 Horkstation, SI-PIC Doing - Node 0 found   Doing - Refresh Doing - Refresh Doing - Node 0 found   Doing - Refresh Doing - Node 0 found Doing - Node 0 found   Horkstation, NEW2 Horkstation, RSI-PIC Doing - Node 0 found   Doing - Refresh Doing - Node 0 found Doing - Node 0 found   Doing - Refresh Doing - Refresh Doing - Node 0 found   Doing - Refresh Doing - Refresh Doing - Refresh   Doing - Refresh Doing - Refresh Doing - Refresh   Doing - Refresh Doing - Refresh Doing - Refresh   Doing - Refresh Doing - Refresh Doing - Refresh   Doing - Refresh Doing - Refresh Doing - Refresh   Doing - Refresh Doing - Refresh Doing	

- (5)、下载完项目后,把DH-485 线从 PC 上摘下来,连接到 SLC5/05 的 RS232 口上,此时如果出现"Required network node(s) not found",说明当前的 SLC500 处理器的 Channel 0 还没有被设置成 DH-485 协议(默认: DF1 协议)。
- 4. SLC500 的 Channel 0 设置成 DH-485 协议:

Controller→Chnnel Configuration 弹出通道组态菜单,如图示

Channel Configuration		2
General Chan. 1 - Sy	ystem Chan. O - System Chan. O - User	
Driver <mark>DH485</mark> Rand 19200	Node Address	
-Protocol Control-		
	Token Max. No	Hold 1 de Address: 31

下载后连接在 Channel 0 上的 PV600 即可与 SLC500 正常通讯。