

TECHNICAL INFORMATION SHEET – NUMBER 369

Series 2000 TIA/EIA-485 Wiring to Horner Electric HE693RTM705

2/3/99

ISSUED BY THE APPLICATIONS ENGINEERING DEPARTMENT



The Horner Electric (www.heapg.com) HE693RTM705 – hereafter referred to as RTM705, provides the GE Fanuc PLC Series 90-30 with a flexible interface to Modbus RTU networks. The RTM705 functions as a Modbus RTU master enabling data to be read and written to one or more slave devices.

Wiring the Horner Electric RTM705 communications module to the Series 2000 controllers is shown in the table below. Port 2 connections must be used for TIA/EIA-485 (previously was RS-485) connections.

<i>RTM705 - Port 2</i>		Connect To	<i>Series 2000</i>	
Function	Pin Number		Terminal Designation	Function
Termination (RD)	24			
Receive Data (B')	25			
Send Data (B)	21		HF	B
Send Data (A)	9		HE	A
Receive Data (A')	13			
Signal Ground	7		HD	Common

Belden cable Part #9842 (2 twisted pairs with aluminum foil screen) or equivalent is recommended. Connect the shield of the cable - preferably at the PLC end only - to earth ground. In a multi-drop situation, be sure that all shields from every wiring segment are connected in a contiguous manner and connected to earth ground at one end only.