

Purpose

This Termination Unit provides the interface for

- field wiring when a NC S01/02 Slave Modules used to supply analog and digital I/O
- Digital Control Stations and Digital Indicator Stations
- Controller Modules (NCOM02/03/04), Quick Response Controllers (NQR01), Multi Function Controllers and Bailey PC 90^{1M} Processors

Description

The NTCS02 Termination Units shown in Figure 1 I/O options are selected by means of dipswitch configurations. See Table 1.

Installation

Please refer to the Termination Unit and Cable Installation section of this manual for complete instructions on installing this Termination Unit.

Cable Installation Procedure

The Serial Extension Cable (NKSE01) enables the NTCS02 Termination Unit to be connected to the NTMF01 Termination Unit, allowing NTCS02 Termination Units to be daisy chained for Multi Function Controller to Station communication. The NKSE01 cable connects to the P2 connector on the NTMF01 Termination Unit and to the P4 or P5 connector on the NTCS02 Termination Unit.

The Serial Link Cable (NKSL01) connects the Multi Function Controller to the NTCS02 Termination Unit. This cable is connected to the P1 or P2 connector of the Termination Unit and the P3 connector of the Multi Function Controller on the CPU Board.

The Termination Unit Cable (NKTU01) connects the Termination Unit to the Control I/O Slave Module (NCIS01).

The NKDS01 Digital Station Cable or NKDS02 (with a Series Connector for daisy chaining), links the Termination Unit, via the P1 connector to a Digital Control Station (using the P2 or P3 connectors). Figure 2 shows sample cabling configurations using the NTCS02 Termination Unit.

NTCS02

TABLE 1 NTCS02 Application Summary

MODULE (CABLE)	APPLICATION/SIGNAL TYPE	D PSHUNT CONFIGURATION*
CONTROLLER /O SLAVE MODULE NC S01/02 (NKTU01)	ANALOG INPUT VARIATIONS system powered 4 20 mA	D PSHUNTS XU1 XU4 1 2 3 4 5 6 7 8 1 0 1 0 0 1 1 1
CONTROLLER MODULE NCOM02/03/04 (NKTU01)	externally powered 4 20 mA	1 2 3 4 5 6 7 8 0 1 0 1 0 1 0 1
MULTIFUNCTION CONTROLLER MODULE NMFC01/02/03/04 (NKSL01, NKTU01)	single ended voltage differentia voltage	1 2 3 4 5 6 7 8 0 1 0 1 0 0 1 1 1 2 3 4 5 6 7 8 0 1 0 1 1 0 0 0
BAILEY PC 90™ PROCESSOR MODULE NMPC01 (NKTU01)	DIGITAL INPUT VARIATIONS analog +24 V dc I/O supply in series	D PSHUNTS XU5 XU7 1 2 3 4 5 6 7 8 0 0 0 0 1 0 1 0
QUICK RESPONSE CONTROLLER NQRC01 (NKTU01)	separate (+24/125 V ac) I/O supply in series	1 2 3 4 5 6 7 8 1 0 1 0 0 0 0 0
QUICK RESPONSE SLAVE NQRS01/02 (NKTU01)	no supply in series	1 2 3 4 5 6 7 8 0 0 0 0 0 0 0 1

* 1-8 represent strap numbers for d pshunts Xu1 through Xu9, where 0 represents a cut strap and 1 represents an uncut strap

NOTE The NTCS02 Terminal on Unit handles 4 Analog Inputs, 2 Analog Outputs, 3 Digital Inputs, and 4 Digital Outputs

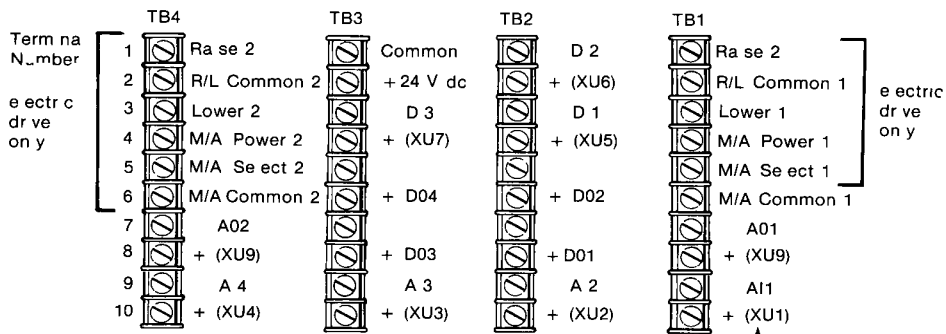
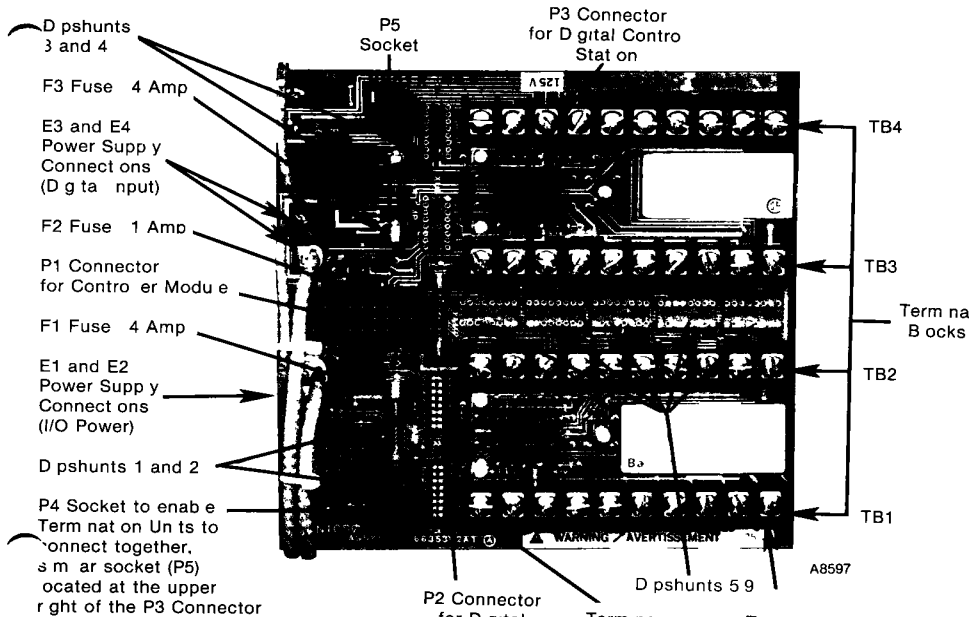
TABLE 1 NTCS02 Application Summary (cont.)

MODULE (CABLE)	APPLICATION/ SIGNAL TYPE	DIPSHUNT CONFIGURATION
CONTROLLER MODULE NCOM02/03/04 (NKU01)	ANALOG INPUT FEEDBACK VARIATIONS	DIPSHUNT XU8
DGTAL CONTROL STAT ON NDCS02/03 (NKDS02)	analog inputs 3 and 4 routed to stations 1 and 2 (socket P2 or P3 respectively)	1 2 3 4 5 6 7 8 1 1 0 1 1 0 0 0
DGTAL INDICATOR STAT ON ND S01 (NKDS02)	analog input 3 routed to station 1 ONLY (socket P2)	1 2 3 4 5 6 7 8 1 1 0 0 0 1 0 0
MULTI FUNCTION CONTROLLER MODULE NMFC01/02/03/04 (NKSL01 NKU01)	analog input 4 routed to station 2 ONLY (socket P3)	1 2 3 4 5 6 7 8 0 0 1 1 1 0 0 0
BAILEY PC 90™ PROCESSOR MODULE NMPC01 (NKU01)	NO analog input routed to either station	1 2 3 4 5 6 7 8 0 0 1 0 0 1 0 0
QUICK RESPONSE CONTROLLER NQR01 (NKU01)		

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TABLE 1 NTCS02 Application Summary (cont.)

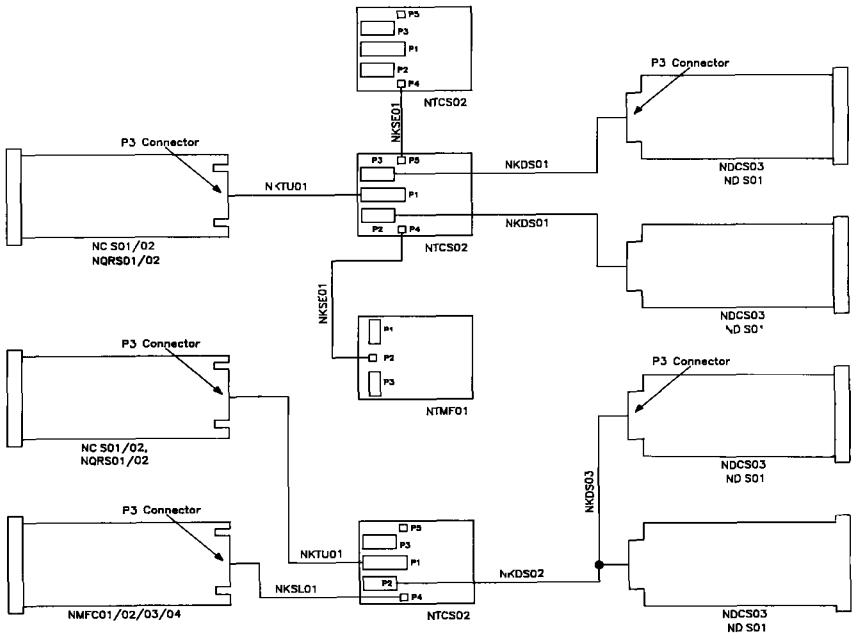
MODULE (CABLE)	APPLICATION/ SIGNAL TYPE	DIPSHUNT CONFIGURATION
CONTROLLER /O SLAVE MODULE NC S01/02 (NKTU01)	ANALOG OUTPUT VARIATIONS both outputs are in voltage mode	DIPSHUNT XU9 1 2 3 4 5 6 7 8 1 1 0 0 0 0 1 1
CONTROLLER MODULE NCOM02/03/04 (NKTU01)	analog output 1 in voltage mode analog output 2 in current mode	1 2 3 4 5 6 7 8 1 1 0 0 0 0 0 0
MULTIFUNCTION CONTROLLER NMFC01/02/03/04 (NKSL01, NKTU01)	analog output 1 in current mode, analog output 2 in voltage mode	1 2 3 4 5 6 7 8 0 0 0 0 0 0 1 1
BAILEY PC 90™ PROCESSOR MODULE NMPC01 (NKTU01)	both outputs are in current mode	1 2 3 4 5 6 7 8 0 0 0 0 0 0 0 0
QUICK RESPONSE CONTROLLER NQRC01 (NKTJ01)		
QUICK RESPONSE SLAVE NQRS01/02 (NKTU01)		



NOTE A
 AO Analog Input / Analog Output
 DO Digital Input / Digital Output
 M/A Manual / Automatic
 D pshunt Used for I/O

FIGURE 1 NTCS02 Termination Unit and Terminal Assignments

NTCS02



TP85144

FIGURE 2 Cable Connections for the NTCS02