

TECHNICAL INFORMATION SHEET – NUMBER 370

2400 BCD INPUTS

3/01/99



ISSUED BY THE APPLICATIONS ENGINEERING DEPARTMENT

The logic inputs of a 2400 series instrument (LA and Lb and the Triple contact input options board) can be selected for a function of BCD (Binary Coded Decimal). These inputs can be used to select either a program number or a setpoint number, this is according to the setting of the parameter “bcd” in the “l nst” configuration list. To enable the user to select up to 16 setpoints or up to 20 programs two Triple Contact input boards are required. The Triple Contact input board , model code SUB2K/TK// , should be used for this application. Below is an example of a controller model code, how to configure the inputs (in this example we do not use LA or LB) and the truth table of typical BCD switches:

Model Code: 2404/CM/VH/??/TK/TK/??/??/??/??/ENG

Configuration:

- First enter the Configuration level of the controller. Refer to TIS #165 for the Access levels.
- Press the page button until the l nst is displayed
- Press the scroll button until bcd is displayed
- Press the up or down arrows until either Prog or SP is displayed
- Press the page button until the 2A is displayed
- Press the scroll button until i d is displayed (the lower display will show Log.i)
- Press the scroll button until Func is displayed
- Press the up or down arrows until bcd.1 is displayed in the lower display
- Repeat this process for the remaining 5 inputs (2b, 2C, 3a, 3b, 3C) setting the bcd. to the next consecutive number.
- Exit the configuration level



Tenths Decimal

1 6



BCD # in Config	BCD 1	BCD 2	BCD 3	BCD 4	BCD 5	BCD 6		
Terminal connection	#	2A	2B	2C	3A	#	3B	3C
0	0	0	0	0		0	0	0
1	1	0	0	0		1	1	0
2	0	1	0	0		2	0	1
3	1	1	0	0				
4	0	0	1	0				
5	1	0	1	0				
6	0	1	1	0				
7	1	1	1	0				
8	0	0	0	1				
9	1	0	0	1				