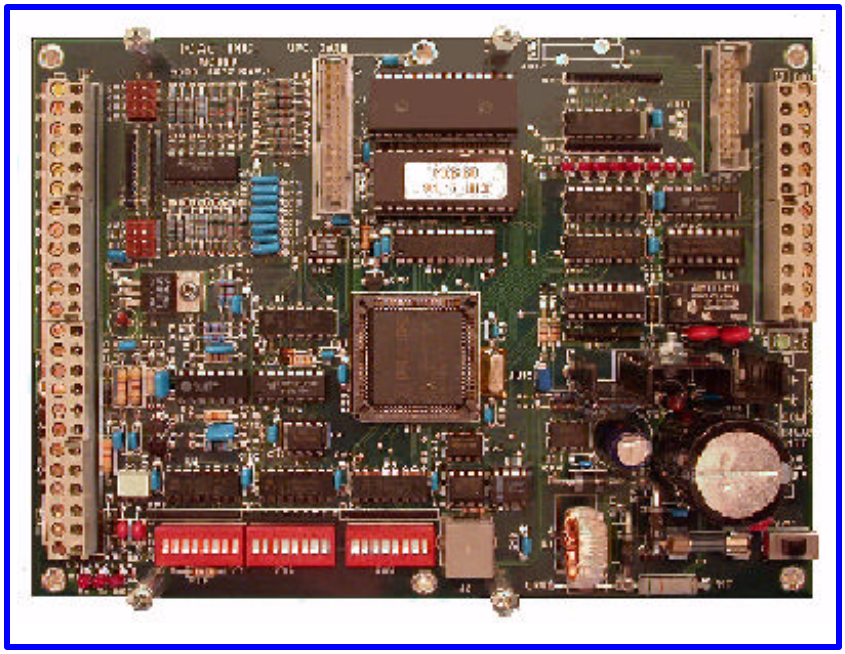
ISAC

Data Sheet

MCB80/180



Input / Output Slave

Stand Alone Reliability

All fail safe parameters and PID loop decisions are accomplished locally on the MCB processor eliminating any dependance upon a control network for the control application.

Network Flexibility

Utilize a network connection to centralize programming and monitoring and to coordinate the MCB inputs and outputs with other system wide components.

PID Loop logic can accept setpoint assignments from the network if available. Default assignments are executed if network communication unavailable.

Capacities:

8 Universal Inputs*
2 Analog Outputs
8 PID Loops
8 Digital Outputs**
configured w/ RLY80
8 Relay Outputs***
8 Digital Inputs(dry contact)
configured w/ RLY180
18 Relay Outputs
8 Digital Inputs

** 4-20ma, 0-5 VDC, OR thermistor.*
*** 24 VDC, sinking transistor, 30ma max per output.*
**** 2 amp, 24 VDC rated*

APPLICATIONS:

- Slave Expansion of Inputs and Outputs
- PID Control Loops
  - Pulse Width Modulation
  - 4-20 ma Output
- Timed Override Control

FEATURES:

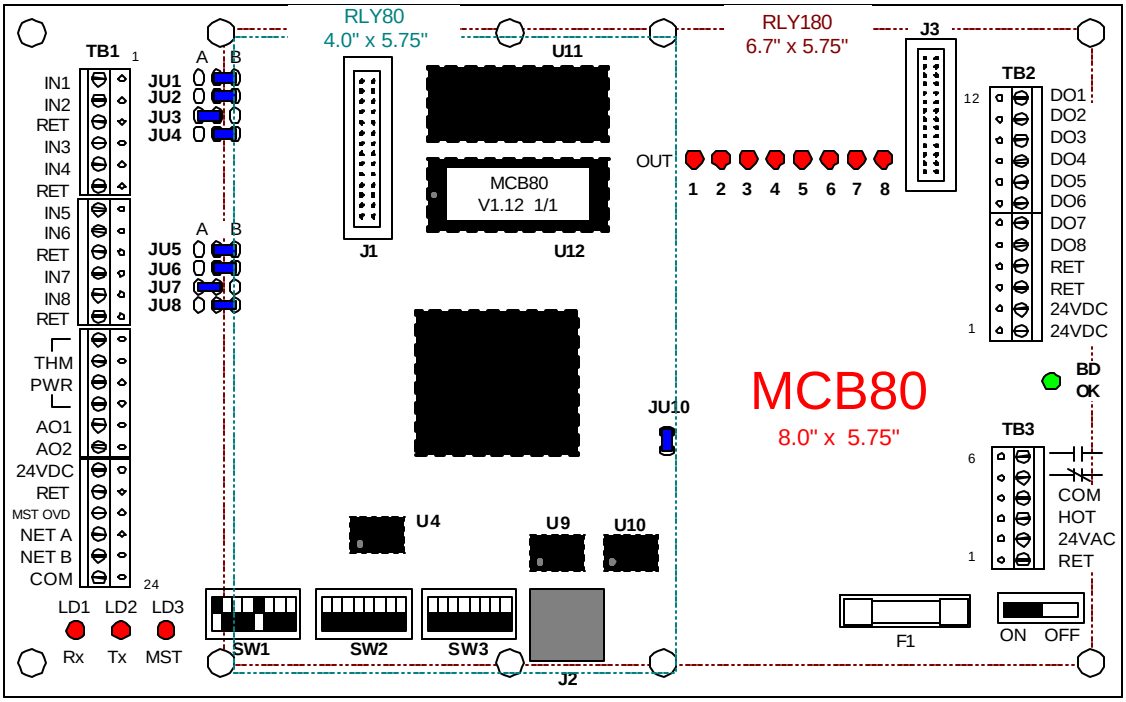
- Fail-Safe Default Assignments
- Network Compatibility
- Logic Indicator per Output
- Energize On or Energize Off Selection
- Connector for RLY Attachment
- On Board Configuration Dip Switches
- On Board EEPROM Backup
- Hand Held Port for Local Setup / Monitor

TriNet OPER. SYSTEM:

(connect to network Master and utilize this powerful operating language)

- Fullpage Operator Displays via Serial Ports
- Menu Driven Navigation
- Fill-in-the-blank Logic Creation
- Review Real Time Data
- View Multiple Data Points Simultaneously
- Alarm Callout (pagers, cell phones, etc.)
- Build and Extract Historical Logs
- Operator Program Stored in EEPROM

MCB80



TERMINATIONS and COMPONENTS

ITEM	TYPE	QTY	LOC	+	SIG	-	JMP	SW	DESC
POWER INPUT	24VAC Transformer	1	TB3	HOT		RET	JU10 = ON		40VA, NEU to TB3-2
	Fuse 1.6 amp, SLO	1	F1						Littlefuse 20801.6
UNIVERSAL INPUTS	4-20ma	1-8	TB1	24VDC	INx		JUx = B		x = 1-8
(8) configurable	0-5VDC	1-8	TB1	24VDC	INx	RET	JUx = off		x = 1-8
	Thermistor	1-8	TB1	ThmPwr	INx		JUx = off		x = 1-8
	Digital	1-8	TB1		INx	RET	JUx = A		x = 1-8
DIGITAL OUTPUTS	24VDC sinking transistor	8	TB2	24VDC	DOx			2	x = 1-8, SW2 (energize): DN=ON, UP=OFF
	logic indicators	8	OUT						
DIGITAL INPUTS	req. RLY connection	8							
ANALOG OUTPUTS	0-24VDC	2	TB2		AOx	RET			x = 1-2
NETWORK WIRING	RS485	1	TB2	NetA	NetB	COM		1	set dips 1-5 to address: 6 = speed
COMPONENTS	Version Prom	1	U12						
	EEPROM	1	U11						retains custom settings
	Hand Held Connector	1	J2						contact ISAC for info

APPLICATION NOTES

1) Universal Inputs independently configurable as current, voltage, thermistor, or digital
2) J3 is ribbon connector to RLY Board, J1 = Unused (future expansion)
3) SW3 used for board level configuration of analog inputs
4) Rx and Tx LED's display network status, blink = active communication
5) U4 = Network driver, U9 = Hand Help driver (interchangeable)
6) U10 = EEPROM, U11 = RAM
7) MST OVR = preconfigured states, MST LED = ON, dry contact between TB1-21 and TB1-24