TCM18
QUICK START GUIDE

PROGRAMMING THE TCM18 MODULE

TCM18 color coded keypad functions as the user interface

- Yellow keys provide circuit information
- Red keys provide alarm information
- Green keys provide action

ACCESSING THE PROGRAM MODE

The TCM18 will then display the following message:

```
PROGRAM MODE ENABLED
SELECT FUNCTION KEY
```

Then select the desired function key (e.g. MAINTAIN TEMP).

If the function key is not a global function (e.g. CONFIG, DATA HWY, etc.) then the following message appears.

```
PROGRAM CIRCUIT=1
```

Select the desired circuit by pressing the UP or DOWN arrow keys and then pressing the ENTER key.

In order to set all circuits to a common value, press the UP arrow key until "ALL THE SAME VALUE" appears.

```
PROGRAM CIRCUIT = ALL
```

Press ENTER to globally set a control or operating parameter.

TCM18 CONTROLLER
QUICK START GUIDE

ACTION	VALUES	SETTINGS
HEATER ENABLE		
(ENABLED)	HEATER	1 Amb, 2 Amb, Amb + Pipe, 1 Pipe or 2 Pipe
(FORCED ON)	HEATER	1 Amb, 2 Amb, Amb + Pipe, 1 Pipe or 2 Pipe
(SPARE)	HEATER	1 Amb, 2 Amb, Amb + Pipe, 1 Pipe or 2 Pipe
(DISABLED)	HEATER	1 Amb, 2 Amb, Amb + Pipe, 1 Pipe or 2 Pipe
CONFIG	GND CUR TRIP	All On, All Off, (by) Ckt
	HTR CUR TRIP	All On, All Off, (by) Ckt
	HI TEMP TRIP	All On, All Off, (by) Ckt
	ALARM RLY	All Alarms or Temp Only
	ALARM RLY	Normally Open or Closed
	AUTO SELF TEST	Off up to 99 Hours
	START UP DELAY	0 to 30 Minutes
	SOFT START TIME	0 to 14 Minutes
	FIRST CIRCUIT	1 to 82
	RTD UNITS	°C or °F
CONTROL BAND	BANDWIDTH	Programmable in Increments of 1 Degree
	TYPE	On/Off, Soft Start or Proportional
HIGH TEMP ALARM	HHALARM/TRIP	(label depends on whether trip is enabled or not)
	ALARM	-129°C to 600°C (-200°F to 1112°F)
	HIGH TEMP SEEN	RTD1 = Reset Yes or No
	HIGH TEMP SEEN	RTD2 = Reset Yes or No
LOW TEMP ALARM	ALARM	-129°C to 600°C (-200°F to 1112°F)
MAINTAIN TEMP		
(AMBIENT CONTROL)	HEATER ON	-129°C to 600°C (-200°F to 1112°F)
	HEATER OFF	-129°C to 600°C (-200°F to 1112°F)
(PIPE CONTROL)	MAINT	-129°C to 600°C (-200°F to 1112°F)
GROUND CURRENT	TRIP	20 mA to 225 mA
	ALARM	20 mA to 225 mA
HIGH CURRENT ALARM	TRIP	0 up to 100 A
	ALARM	0 up to 100 A
LOW CURRENT ALARM	ALARM	0 up to 10 A
HEATER CURRENT	RTD FAULT POWER	Off or 20 to 100%
DATA HIGHWAY	ADDRESS	1 to 247
	MODBUS	RTU 8, 1, NP or ASCII 7, 2, NP
	BAUD RATE	9600, 19200, 38400 or 57600
ALARM ACK + PROG	UPDATE PASSWORD	Yes or No