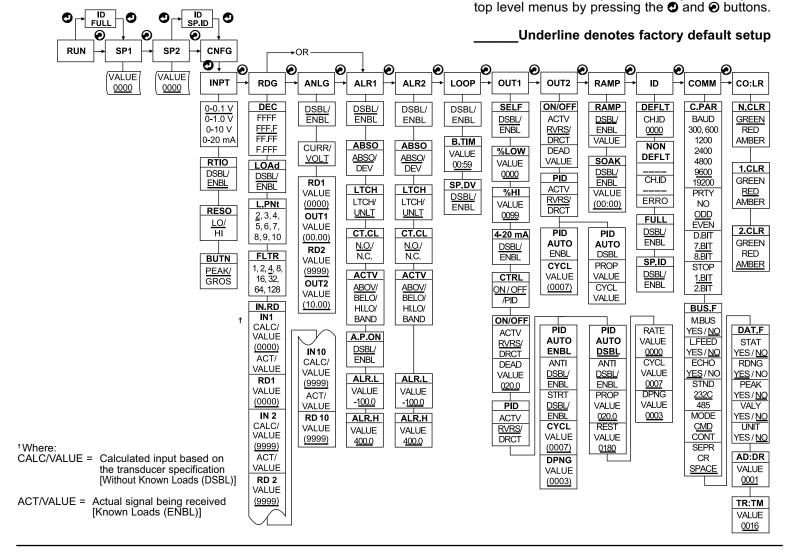
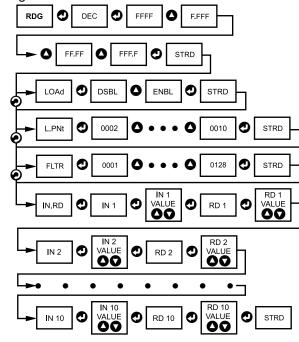
FLOW CHART



READING CONFIGURATION SETUP (operation example)

Below is a flowchart showing how to navigate through the submenus of the Reading Configuration menu item by pressing the front buttons



DISPLAY COLOR SETUP (examples)

Example 1:

Output 1 & Output 2: SSR Alarm setup: Absolute, Above, Alarm 2 HI Value "ALR.H" =200, Alarm 1 HI Value "ALR.H"=400 Color Display setup: Normal Color "N.CLR"=Green, Alarm 1 Color "1.CLR"=Amber, Alarm 2 Color "2.CLR"=Red

Below is a flowchart showing how to navigate through all

Display colors change sequences:

	GREEN		RED	l	AMBER	
•- > 0	AL2.	H=200		AL1.	 	 •

Example 2:

Output 1: Relay, Set Point 1 = 200, Output 2: Relay, Set Point 2 = 200 Alarm 1 setup: Deviation, Band, "ALR.H" = 20 Alarm 2 setup: Deviation, Hi/Low, "ALR.H = 10", "ALR.L = 5" Color Display setup: "N.CLR"=Green, "1.CLR"=Amber, "2.CLR"=Red

Display colors change sequences:

AMBER	RED	GREEN	GREEN	RED	AMBER
-------	-----	-------	-------	-----	-------

•->	•	••	•	•	•	·>
0	180	195	200	210	220	

SPECIFICATION

Accuracy: 0.03% rdg

Output 2: Relay 250 Vac @ 3 A Resistive Load, SSR, Pulse

10 Vdc@60 mA

Line Voltage/Power:

Resolution: 10 / 1 µV process **Options: Communication** Linearization Points: 10 Points RS-232/RS-485 or 10Base T

Temperature Stability: 50 ppm/°C

Display: 4-digit, 9-segment LED, 10.2 mm (0.40") with red, green and amber programmable colors

Input Types:

Analog Voltage and Current Voltage: 0 to 100 mV, 0 to 1V (<u>+</u>100 mV), 0 to 10Vdc

Input Impedance: 10 MΩ for 100 mV. 1 MΩ for 1 or 10 Vdc

Current: 0 to 20 mA (5 Ω load)

Load, SSR, Pulse, Analog Voltage and Current

Low Voltage Power Option: 12 - 36Vdc, 3 W** single display; 20 - 36Vdc, **4 W**** dual display; **Units can be powered safely with 24 Vac but No Certification for CE/UL are claimed.

or Excitation: 5 Vdc@40 mA.

Exc. not available for Low Power Option

90 - 240 Vac ±10%, 50 - 400 Hz*,

5W dual display * No CE compliance above 60 Hz

or 110-375 Vdc, 4W single display;

Dimensions:

Output 1: Relay 250 Vac @ 3 A Resistive

48 H x 48 W x 127 D mm (1.89 x 1.89 x 5") Weight: 159 g (0.35 lb)

Approvals: UL, C-UL, CE per EN61010-1:2001

WARNING: These products are not designed for use in, and should not be used for, patientconnected application

This device is marked with the international caution symbol. It is important to read the Setup Guide before installing or commissioning this device, as the guide contains important information relating to safety and EMC.

It is the policy of OMEGA to comply with all worldwide safety and EMC/EMI regulations that apply. OEMGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

The information contained in this document is believed to be correct, but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice. TRADEMARK NOTICE:

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USA

WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of one (1) year from the date of purchase. In addition to DMEGA's standard warranty period, OMEGA engineering will extend the warranty period for four (4) additional years if the warranty card enclosed with each instrument is returned to OMEGA.

If the unit malfunctions, it must be returned to the factory for evaluation, OMEGA's Customer Service Department with If the unit mailunctions, it must be returned to the factory for evaluation. OME/GAS Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; impore rspecification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

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CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity, or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical applications, used on humans, or misused in any way. OMEGA assumes no responsibility as set forth in our basic WARRANTVDISCLAIMER language, and, additionally, purchaser will indemity OMEGA and hold OMEGA hamless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any compresentations of the return package and on any compresentations.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage transit

- FOR <u>WARRANTY</u> RETURNS, please have the following information available BEFORE contacting OMEGA: FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:
- Purchase Order number under which the product was PURCHASED, Purchase Order number to cover the COST of the Model and serial number of the product under warranty, and
- Model and serial number of product, and Repair instructions and/or specific problems relative to the product.
 - Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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PATENT AND TRADEMARK NOTICE: This product is covered by one or more of the following patents: U.S. Pat No. Des. 336,895; 5,274,577; 6,243,021 / CANADA 2052599; 2052600 / ITALY 1249456; 1250938 / GERMANY DE 41 34398 C2 / SPAIN 2039165; 0248066 / UR Patent No. GB2 249 337; GB2 248 954 / FRANCE BREVET NO. 91 12756. The "Meter Bazel Design" is a trademark of Newport Electronics, Inc. USED UNDER LICENSE. Other U.S and International Patents pending or applied for.









CNiS16 / CNiS16D Series Process / Strain Gauge Controller



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This Quick Start Reference provides information on setting up your instrument for basic operation. The latest complete Communication and Operational Manual as well as free Software and ActiveX Controls are available at *www.omega.com/specs/iseries* or **on the CD-ROM enclosed with your shipment**.

SAFETY CONSIDERATION

This device is marked with the international Caution symbol.

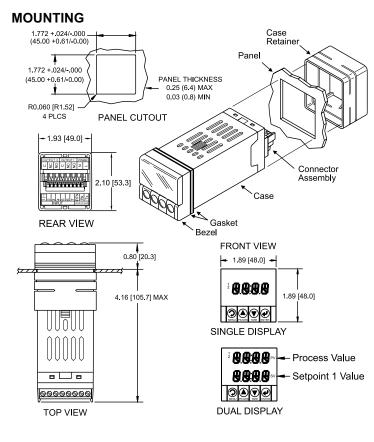
The instrument is a panel mount device protected in accordance with EN61010-1:2001. Remember that the unit has no power-on switch. Building installation should include a switch or circuit-breaker that must be compliant to IEC 947-1 and 947-3.

SAFETY:

- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.
- Do not expose this instrument to rain or moisture.

EMC:

- Whenever EMC is an issue, always use shielded cables.
- Never run signal and power wires in the same conduit.
- Use signal wire connections with twisted-pair cables.
- Install Ferrite Bead(s) on signal wire close to the instrument if EMC problems persist.



Panel Mounting Instruction:

- **1.** Using the dimensions from the panel cutout diagram shown above, cut an opening in the panel.
- 2. Insert the unit into the opening from the front of the panel, so the gasket seals between the bezel and the front of the panel.
- **3.** Slide the retainer over the rear of the case and tighten against the backside of the mounting panel.

Disassembly Instruction:

If necessary, the unit may be removed from the panel and opened.

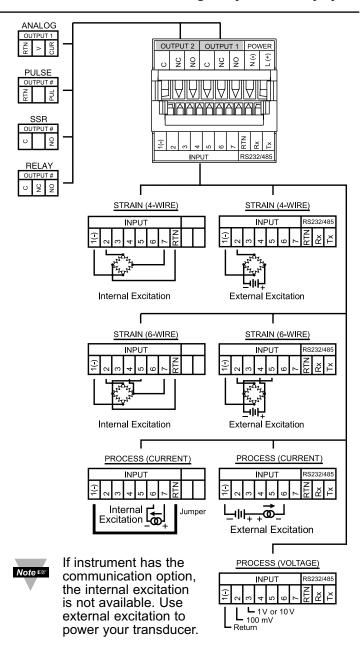
Warning: Disconnect all ac power from the unit before proceeding.

- **1.** Remove all wiring connections from the rear of the meter. To remove connector assembly, squeeze top and bottom of the case near the connector site for release, then pull connectors from case.
- **2.** To remove meter from the case, squeeze top and bottom of the bezel to release, then pull from case.

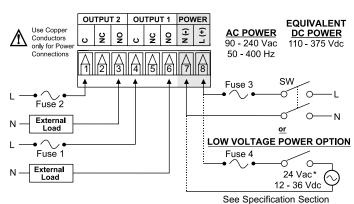
WIRING

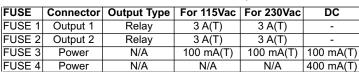
Wire the instrument according to the figure shown below.

Warning: Do not connect ac power to your device until you have completed all input and output connections. This device must only be installed by a specially trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!



Connect the main power connections in the figure shown below.





CONFIGURATION

Button Functions in Configuration Mode

-	-
	 To enter the Menu, the user must first press hutten
	button.
$\mathbf{\Theta}$	Use this button to advance/navigate to the next many item. The user can payigate through all the
MENU	menu item. The user can navigate through all the
	top level menus by pressing \textcircled{O} .
	• While a parameter is being modified, press ● to escape without saving the parameter.
	 Press the up O button to scroll through "flashing"
	selections. When a numerical value is displayed
	press this key to increase value of a parameter
	that is currently being modified.
PK/GRS	 Holding the O button down for approximately
	3 seconds will speed up the rate at which the
(UP)	setpoint value is incremented.
	 In the Run Mode pressing O causes the display to
	flash the PEAK or GROSS value - press again to
	return to the Run Mode.
	 Press the down O button to go back to a previous
	Top Level Menu item.
	Press this button twice to reset the controller to
	the Run Mode.
	• When a numerical value is flashing (except
	setpoint value) press O to scroll digits from left to
0	right allowing the user to select the desired digit to
TARE	modify.
(DOWN)	 When a setpoint value is displayed press to
	decrease value of a setpoint that is currently being modified. Holding the ♥ button down for
	approximately 3 seconds will speed up the rate at
	which the setpoint value is decremented.
	 In the Run Mode pressing O causes the display to
	flash TARE value to tare your reading (zeroing).
	 Press the enter O button to access the submenus
	from a Top Level Menu item.
	 Press I to store a submenu selection or after
	entering a value — the display will flash a SERd
	message to confirm your selection.
ENTER	 To reset flashing PEAK or GROSS press O.
	 In the Run Mode, press I twice to enable
	Standby Mode with flashing 5E 69 .



Reset: Except for Alarms, modifying any settings of the menu configuration will reset the controller prior to resuming Run Mode.

DISPLAY ABBREVIATIONS

		0.70	0 / 0 / / 0 / / /
SP1	Set Point 1 Value	SP2	Set Point 2 Value
CNFG	Configuration Menu	INPt	Input Type (Range)
INPt	Input Type (range)	0 - 0.1	100 mV Input
	input Type (range)	0 - 0.1	
			Voltage
0 - 1.0	1 V Input Voltage	0 - 10	10 V Input Voltage
0 - 20	20 mA Input Current		
			Diamles / Decelution
Rtio	Ratiometric Operation	RESO	Display Resolution
bUtN	Button Peak/Gross	PEAk	Peak Value
GROS	Gross Value		
RdG	Reading Configuration		
dEC	Decimal Point	F.FFF	Decimal Point
		FFFF	Position
	la a d		
LOAd	Input Load	EnbL	Scaling with Known
			Loads (Actual Value)
DSbL	Scaling without Known	L.PNt	Linearization Points
DONE			
	Loads (Calculated Value)		
0002	Number of Linearization	FLtR	Filter Constant
0010	Points		
0001	Filter Constant Value	IN.Rd	Input/Reading Scale
0128			and Offset Menu
IN 1	Input 1	Rd 1	Reading 1
IN 2	Input 2	Rd 2	Reading 2
 IN 10	Input 10	 Rd 10	Reading 10
ANLG	Analog Output	CURR	Current Output
VoLt	Voltage Output	Rd 1	Reading 1
Out.1	Output 1	Rd 2	Reading 2
		RUZ	Reading Z
Out.2	Output 2		
ALR1	Alarm 1 Menu	AbSo	Absolute Mode
dEV	Deviation Mode	LtcH	Latched Mode
_			
UNLt	Unlatched Mode	Ct.CL	Contact Closure
N.o.	Normally Open	N.c.	Normally Closed
ActV	Active Type	AboV	Active Above
bELo	Active Below	Hi.Lo	Above High/Below
			Low
bANd	Above or Below Band	A.P.oN	
DANU	Above of Delow Dallu	A.F.ON	
			at Power On
ALR.L	Alarm Low Value	ALR.H	Alarm High Value
	Alarm 2 Menu		
	Loop Break Menu	b.tIM	Loop Break Time
R.AdJ	Reading Adjust	SP.dN	Set Point Deviation
OUt1	Output 1 Menu	SELF	Manual Control
₀⁰LO	Percent Low	₀ºHI	Percent High
CtRL	Control Type	ON.OF	On/Off Control
4 -20	Amplitude Control	Pld	PID Control
ActN	Action Type	RVRS	Reverse Action
dRct	Direct Action	ANt1	Anti Integral
	Auto PID	A.tUN	Auto Tune PID
AUTO			
AUto			
StRt	Start Auto Tune PID	PRoP	Proportional Band
			Proportional Band Rate Setup
StRt RESt	Start Auto Tune PID Reset Setup	PRoP RAtE	Proportional Band Rate Setup
StRt RESt CYCL	Start Auto Tune PID Reset Setup Cycle Time	PRoP	Proportional Band
StRt RESt CYCL dEAd	Start Auto Tune PID Reset Setup Cycle Time Dead Band	PRoP RAtE	Proportional Band Rate Setup
StRt RESt CYCL dEAd OUt2	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu	PRoP RAtE dPNG	Proportional Band Rate Setup Damping Factor
StRt RESt CYCL dEAd OUt2	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu	PRoP RAtE dPNG	Proportional Band Rate Setup Damping Factor
StRt RESt CYCL dEAd OUt2 RAMP	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time	PRoP RAtE dPNG SOAk	Proportional Band Rate Setup Damping Factor Soak Time
StRt RESt CYCL dEAd OUt2 RAMP Id	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu	PRoP RAtE dPNG SOAk CH.Id	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code
StRt RESt CYCL dEAd OUt2 RAMP Id FULL	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID	PRoP RAtE dPNG SOAk CH.Id SP.Id	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID
StRt RESt CYCL dEAd OUt2 RAMP Id FULL	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID	PRoP RAtE dPNG SOAk CH.Id	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code
StRt RESt CYCL dEAd OUt2 RAMP Id FULL	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu	PRoP RAtE dPNG SOAk CH.Id SP.Id	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option*	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM COLR	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option* Display Color Selection	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE N.CLR	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed Normal Color Display
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM COLR	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option* Display Color Selection	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE N.CLR	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed Normal Color Display
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option*	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed Normal Color Display Alarm 2 Color
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM COLR 1.CLR	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option* Display Color Selection Alarm 1 Color Display	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE N.CLR 2.CLR	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed Normal Color Display Alarm 2 Color Display
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM COLR	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option* Display Color Selection	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE N.CLR	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed Normal Color Display Alarm 2 Color Display Display Color is
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM COLR 1.CLR	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option* Display Color Selection Alarm 1 Color Display	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE N.CLR 2.CLR	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed Normal Color Display Alarm 2 Color Display
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM COLR 1.CLR REd	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option* Display Color Selection Alarm 1 Color Display Display Color is Red	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE N.CLR 2.CLR	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed Normal Color Display Alarm 2 Color Display Display Color is
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM COLR 1.CLR REd GRN	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option* Display Color Selection Alarm 1 Color Display Display Color is Red Display Color is Green	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE N.CLR 2.CLR AMbR	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed Normal Color Display Alarm 2 Color Display Display Color is Amber
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM COLR 1.CLR REd GRN dSbL	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option* Display Color Selection Alarm 1 Color Display Display Color is Red	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE N.CLR 2.CLR AMbR ENbL	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed Normal Color Display Alarm 2 Color Display Display Color is Amber Enable
StRt RESt CYCL dEAd OUt2 RAMP Id FULL COMM COLR 1.CLR REd GRN	Start Auto Tune PID Reset Setup Cycle Time Dead Band Output 2 Menu Ramp Time ID Code Menu Full ID Communication Option* Display Color Selection Alarm 1 Color Display Display Color is Red Display Color is Green	PRoP RAtE dPNG SOAk CH.Id SP.Id NONE N.CLR 2.CLR AMbR	Proportional Band Rate Setup Damping Factor Soak Time Change ID Code Set Point ID Communication is Not Installed Normal Color Display Alarm 2 Color Display Display Color is Amber

* For abbreviations of Communication Option see Communication Manual.