<u>400.0</u>

(9999)

ACT/

VALUE

RD 2

VALUE

<u>(9999)</u>

<u>400.0</u>

# READING CONFIGURATION SETUP (operation example)

CALC/VALUE = Calculated input based on

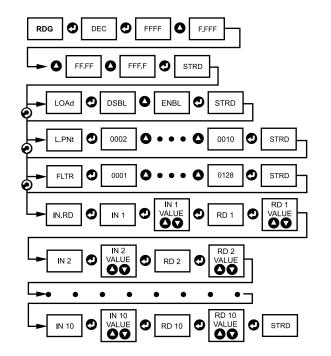
ACT/VALUE = Actual signal being received

the transducer specification

[Known Loads (ENBL)]

[Without Known Loads (DSBL)]

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)**

(0007)

DPNG

VALUE

(0003)

<u>0180</u>

SEPR

CR

**SPACE** 

AD:DR

VALUE

<u>0001</u>

TR:TM

VALUE

<u>0016</u>

#### 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

Display colors change sequences:

			AMBER ≻
0	AL2.H=200	AL1.H=40	_

# 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:

•	•	EEN   GRE	•	•	
		200			>

#### **SPECIFICATION**

Accuracy:

0.03% rda

Resolution:

10 / 1 µV process

**Linearization Points:** 

10 points

Temperature Stability: 50 ppm/°C process

Display:

- 4-digit, 9-segment LED,
- 21 mm (0.83") (Single Display) • 10.2 mm (0.40"): (Dual Vertical)
- 10.2 mm (0.40") and 21 mm (0.83") (Dual Horizontal)

Red, green, and amber programmable colors for process variable, set point and temperature units.

## Input Types:

Analog Voltage and Current Voltage: 0 to 100 mV. 0 to 1 V (+100 mV). 0 to 10 Vdc

Input Impedance:

10 M $\Omega$  for 100 mV 1 MΩ for 1 or 10 Vdc

Current: 0 to 20 mA (5 Ω load) Output 1:

Relay 250 Vac @ 3 A Resistive Load, SSR, Pulse, Analog Voltage and Current

Output 2:

Relay 250 Vac @ 3 A Resistive Load, SSR, Pulse

**Options: Communication** 

RS-232 / RS-485 or 10BaseT or Excitation: 5 Vdc @ 40 mA, 10 Vdc @ 60 mA

Exc. not available for Low Power Option Line Voltage/Power:

90 - 240 Vac ±10%, 50 - 400 Hz\*, or 110-375 Vdc, 4W for single display;

5W for dual display
\* No CE compliance above 60 Hz

Low Voltage Power Option:

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

Dimensions:

48 H x 96 W x 127 D mm (1.89 x 3.78 x 5")

Weight:

295 g (0.65 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, patient-

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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OMEGA ENGINEERING, INC.

#### 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 OMEGA'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 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. OMEGAS WARRANTY is VOB 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 VODI 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; improper specification; 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.

Contact points, tuses, and thacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by it will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESSOR TAITONS OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchase rest forth brein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

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 application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTYDISCLAIMER language, and, additionally, purchaser will indemnify 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 correspondent.

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

FOR WARRANTY RETURNS, please have the following information available BEFORE

- contacting OMEGA:
- 2. Model and serial number of the product under
- Repair instructions and/or specific problems relative to the product.
- FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:
- Purchase Order number to cover the COST of the Model and serial number of product, and
- 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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MADE IN

USA



# CNiS8 / CNiS8DH / CNiS8DV **Process / Strain Gauge** Series Controller



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Toll Free in England: 0800 488 488 e-mail: sales@omega.co.uk

MQS3540/1204



STARTHERS 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.

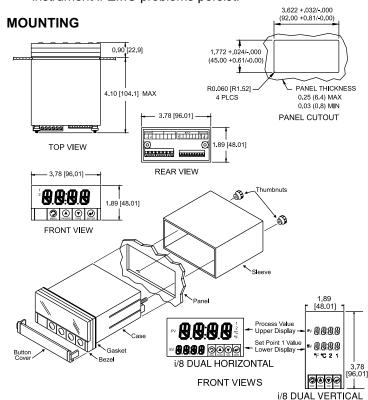
The instrument is a panel mount device protected in accordance with EN61010-1:2001. Remember that the unit has no power-on switch. Building installation should include a switch or circuit-breaker that must be compliant to IEC 947-1 and 947-3.

### **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. Remove sleeve from the rear of the case by removing thumbnuts.
- 3. Insert the unit into the opening from the front of the panel, so the gasket seals between the bezel and the front of the
- 4. Slip the sleeve over the rear of the case.
- 5. Tighten the thumbnuts to hold the unit firmly in the panel.

## **Disassembly Instruction:**

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

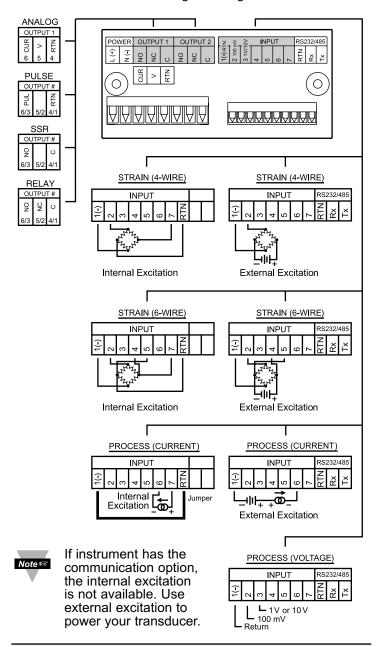


Warning: Disconnect all ac power from the unit before proceeding.

- **1.** Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
- 2. Remove both thumbnuts and set aside.
- 3. Remove the sleeve and set aside.
- 4. Remove the meter from the panel and bend the side panel detents on the case outward to release the board. Pull the board assembly out of the case.

# **WIRING**

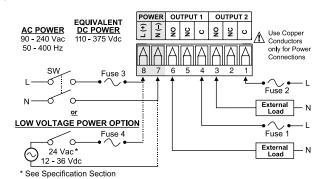
Wire the instrument according to the figure shown below.





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.



FUSE	Connector	Output Type	For 115Vac	For 230Vac	DC
FUSE 1	Output 1	Relay	3 A(T)	3 A(T)	-
FUSE 2	Output 2	Relay	3 A(T)	3 A(T)	-
FUSE 3	Power	N/A	100 mA(T)	100 mA(T)	100 mA(T)
FUSE 4	Power	N/A	N/A	N/A	400 mA(T)

## **CONFIGURATION**

**Button Functions in Configuration Mode** 

To enter the Menu, the user must first press
button.  Use this button to advance/navigate to the next menu item. The user can navigate through all the top level menus by pressing ②.  While a parameter is being modified, press ② to escape without saving the parameter.  Press the up ③ 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.  Holding the ④ button down for approximately 3 seconds will speed up the rate at which the setpoint value is incremented.  In the Run Mode pressing ④ causes the display to flash the PEAK or GROSS value − press again to return to the Run Mode.  Press the down ⑤ 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 ⑥ to scroll digits from left to right allowing the user to select the desired digit to modify.  When a setpoint value is displayed press ⑤ to decrease value of a setpoint that is currently being modified. Holding the ⑥ button down for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.  In the Run Mode pressing ⑥ causes the display to flash TARE value to tare your reading (zeroing).
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<ul> <li>While a parameter is being modified, press  to escape without saving the parameter.</li> <li>Press the up  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.</li> <li>Holding the  button down for approximately 3 seconds will speed up the rate at which the setpoint value is incremented.</li> <li>In the Run Mode pressing  causes the display to flash the PEAK or GROSS value – press again to return to the Run Mode.</li> <li>Press the down  button to go back to a previous Top Level Menu item.</li> <li>Press this button twice to reset the controller to the Run Mode.</li> <li>When a numerical value is flashing (except setpoint value) press  to scroll digits from left to right allowing the user to select the desired digit to modify.</li> <li>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.</li> <li>In the Run Mode pressing  causes the display to flash TARE value to tare your reading (zeroing).</li> </ul>
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Selections. When a numerical value is displayed press this key to increase value of a parameter that is currently being modified.  Holding the ▶ button down for approximately 3 seconds will speed up the rate at which the setpoint value is incremented.  In the Run Mode pressing ♠ causes the display to flash the PEAK or GROSS value – press again to return to the Run Mode.  Press the down ♠ 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 ♠ to scroll digits from left to right allowing the user to select the desired digit to modify.  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 ♠ causes the display to flash TARE value to tare your reading (zeroing).
PRIGRS (UP)  PRIGRS  PRIGR
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to flash the PEAK or GROSS value – press again to return to the Run Mode.  • Press the down ● 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 ● to scroll digits from left to right allowing the user to select the desired digit to modify.  • 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 ● causes the display to flash TARE value to tare your reading (zeroing).
to return to the Run Mode.  • Press the down ● 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 ● to scroll digits from left to right allowing the user to select the desired digit to modify.  • 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 ● causes the display to flash TARE value to tare your reading (zeroing).
<ul> <li>Press the down  button to go back to a previous Top Level Menu item.</li> <li>Press this button twice to reset the controller to the Run Mode.</li> <li>When a numerical value is flashing (except setpoint value) press  to scroll digits from left to right allowing the user to select the desired digit to modify.</li> <li>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.</li> <li>In the Run Mode pressing  causes the display to flash TARE value to tare your reading (zeroing).</li> </ul>
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 ● to scroll digits from left to right allowing the user to select the desired digit to modify.  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 ● causes the display to flash TARE value to tare your reading (zeroing).
<ul> <li>Press this button twice to reset the controller to the Run Mode.</li> <li>When a numerical value is flashing (except setpoint value) press  to scroll digits from left to right allowing the user to select the desired digit to modify.</li> <li>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.</li> <li>In the Run Mode pressing  causes the display to flash TARE value to tare your reading (zeroing).</li> </ul>
the Run Mode.  When a numerical value is flashing (except setpoint value) press  to scroll digits from left to right allowing the user to select the desired digit to modify.  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  causes the display to flash TARE value to tare your reading (zeroing).
When a numerical value is flashing (except setpoint value) press  to scroll digits from left to right allowing the user to select the desired digit to modify.      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  causes the display to flash TARE value to tare your reading (zeroing).
setpoint value) press to scroll digits from left to right allowing the user to select the desired digit to modify.  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 causes the display to flash TARE value to tare your reading (zeroing).
right allowing the user to select the desired digit to modify.  • 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 • causes the display to flash TARE value to tare your reading (zeroing).
modify.  • 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 ♥ causes the display to flash TARE value to tare your reading (zeroing).
<ul> <li>When a setpoint value is displayed press          of to decrease value of a setpoint that is currently being modified. Holding the          of button down for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.</li> <li>In the Run Mode pressing          of causes the display to flash TARE value to tare your reading (zeroing).</li> </ul>
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 ● causes the display to flash TARE value to tare your reading (zeroing).
<ul> <li>modified. Holding the  button down for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.</li> <li>In the Run Mode pressing  causes the display to flash TARE value to tare your reading (zeroing).</li> </ul>
<ul> <li>approximately 3 seconds will speed up the rate at which the setpoint value is decremented.</li> <li>In the Run Mode pressing  auses the display to flash TARE value to tare your reading (zeroing).</li> </ul>
<ul> <li>which the setpoint value is decremented.</li> <li>• In the Run Mode pressing  acuses the display to flash TARE value to tare your reading (zeroing).</li> </ul>
<ul> <li>In the Run Mode pressing</li></ul>
to flash TARE value to tare your reading (zeroing).
<ul> <li>Press the enter ② button to access the submenus</li> </ul>
from a Top Level Menu item.
<ul> <li>Press  to store a submenu selection or after</li> </ul>
entering a value — the display will flash a 5 t R d
message to confirm your selection.
ENTER • To reset flashing PEAK or GROSS press ②.
<ul> <li>In the Run Mode, press ② twice to enable</li> </ul>
Standby Mode with flashing 5 to 5.



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

#### **DISPLAY ABBREVIATIONS**

054	0.10.1.1.1.1	000	0.40.40.44
SP1	Set Point 1 Value	SP2	Set Point 2 Value
CNFG INPt	Configuration Menu	INPt 0 - 0.1	Input Type (Range)
INPt	Input Type (range)	0 - 0.1	100 mV Input
0 - 1.0	1 V Input Voltage	0 - 10	Voltage 10 V Input Voltage
0 - 1.0	20 mA Input Current	0 - 10	10 v Input voltage
Rtio	Ratiometric Operation	RESO	Display Resolution
bUtN	Button Peak/Gross	PEAk	Peak Value
GROS	Gross Value	ILAN	i can value
RdG	Reading Configuration		
dEC	Decimal Point	F.FFF	Decimal Point
	Dodinian i dini	FFFF	Position
LOAd	Input Load	EnbL	Scaling with Known
	'		Loads (Actual Value
DSbL	Scaling without Known	L.PNt	Linearization Points
	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
	1		D
IN 10	Input 10	Rd 10	Reading 10
ANLG	Analog Output	CURR	Current Output
VoLt	Voltage Output Output 1	Rd 1 Rd 2	Reading 1
Out.1 Out.2	Output 1 Output 2	RU Z	Reading 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	Alarm Enable/Disable
			at Power On
	Alarm Low Value	ALR.H	Alarm High Value
	Alarm 2 Menu		
	Loop Break Menu	b.tlM	Loop Break Time
R.AdJ	Reading Adjust	SP.dN	Set Point Deviation
OUt1	Output 1 Menu	SELF	Manual Control
°LO	Percent Low	°HI	Percent High
CtRL	Control Type Amplitude Control	Pld	On/Off Control PID Control
4 -20 ActN	Action Type	RVRS	Reverse Action
dRct	Direct Action	ANt1	Anti Integral
AUto	Auto PID	A.tUN	Auto Tune PID
StRt	Start Auto Tune PID	PRoP	Proportional Band
RESt	Reset Setup	RAtE	Rate Setup
CYCL	Cycle Time	dPNG	Damping Factor
dEAd	Dead Band		1 0
OUt2	Output 2 Menu		
RAMP	Ramp Time	SOAk	Soak Time
ld	ID Code Menu	CH.ld	Change ID Code
FULL	Full ID	SP.Id	Set Point ID
COMM	Communication Option*	NONE	Communication is
	D: 1 0 1 0 1 "	N. 6: =	Not Installed
COLR	Display Color Selection		Normal Color Display
1.CLR	Alarm 1 Color Display	2.CLR	Alarm 2 Color
ם בין ו	Diaplay Calaria Dad	ABALD	Display Color in
REd	Display Color is Red	AMbR	Display Color is
GRN	Dienlay Color is Groop		Amber
dSbL	Display Color is Green Disable	ENbL	Enable
ERRO	Error	+ OL	Input (+) Overload
L K K ' '			

\* For abbreviations of Communication Option see Communication Manual