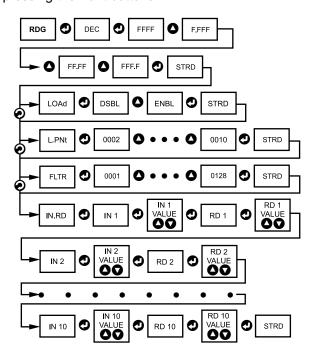


READING CONFIGURATION SETUP (operation example)

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

Display colors change sequences:

		RED	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 GR	•	•	
 		200		220	

SPECIFICATION

Accuracy:

Resolution:

10 / 1 µV process **Linearization Points:**

10 points

Temperature Stability:

50 ppm/°C process

Display:

4-digit, 7-segment LED,

57.2 mm (2.25") with red, green and amber programmable colors.

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 $M\Omega$ for 1 or 10 Vdc

Current:

0 to 20 mA (5 Ω load)

Options: Communication

RS-232 / RS-485 or Excitation 5Vdc @40mA.

Power Supply:

10Vdc @60mA

100-240 Vac ±10%, 50/60 Hz, 22.5 W

Operating Temperature: 0 to 40°C Storage Temperature: -20 to 60°C

Relative Humidity: 0 to 85%

Protection:

NEMA-4x (IP65)

Dimensions: 289 L x 137 W x 73 D mm

(11.75" L x 5.375" W x 2.875" D)

Panel Cutout: 279.4 L x 116.8 W mm

(11.00" L x 4.60" W)

Weight:

1,360 g (3 lbs)

Approvals:

per FN61010-1

WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **61 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **five (5) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product. If the unit malfunctions, it must be returned to the factory for evalua-

tion. 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 Upon examination by UMEGA, 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; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses,

is not warranted, include but are not minimed to contact points, ready, 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 appli cations 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 WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s)

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 correspondence.

FOR <u>WARRANTY</u> RETURNS, please have the following information available BEFORE consult OMEGA for current repair charges. Have the following

- contacting OMEGA: 1. Purchase Order number under which the product
- was PURCHASED, 2. Model and serial number of the product under warranty, and 2. Model and serial number of the
- 3. Repair instructions and/or specific problems relative product, and
 3. Repair instructions and/or specific to the product. problems relative to the product.

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

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nation available BEFORE

. Purchase Order number to cover

the COST of the repair or

contacting OMEGA:



Series



iLD24 Big Display Universal Strain & **Process Monitor**

CE OMEGA

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



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 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.

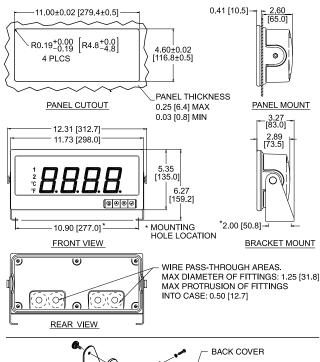
SAFETY:

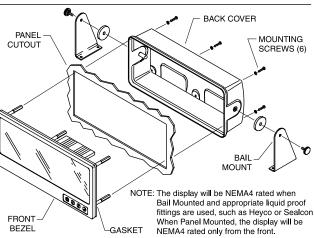
- Do not exceed voltage rating on the label located on the back of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive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

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.

MOUNTING





Mounting Big Display Through Panel:

- **1.** Using the panel cutout diagram shown above, cut an opening in the panel.
- Remove six screws at the back of Big Display to remove back cover.
- 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.
- 4. Align back cover to Big Display and reinstall screws.

Mounting Big Display on Bail:

- 1. Mark the location of mounting screws on the flat surface.
- **2.** Be sure to leave enough room around the bail to allow for removal and rotation of the display.
- **3.** The display can be rotated for the best viewing angle.

Disassembly Instruction:



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

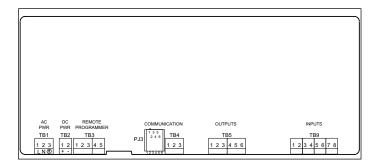
- 1. Remove all wiring connections from the rear of the instrument, by unscrewing the power and input connectors.
- 2. Remove six screws at the back of the display and back cover.
- 3. Remove the Big Display from the panel.
- **4.** To remove the Big Display from the bail, unscrew the two knobs at each end of the mounting brackets.

WIRING

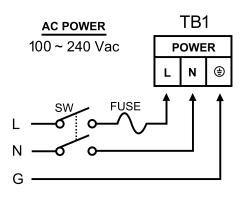
Wire the instrument according to the Input Wiring Connections described in your Operator's Manual.



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 as shown in the figure below.



CONFIGURATION

MENU Mode:

Flashing display in MENU Mode means you can make your selection by pressing • button. If the flashing display is not a four digit value, pressing • button will always direct the instrument one step backward of the top menu item. The second push on the • button will reset the instrument except after the setpoint and the alarms, that will go to the RUN Mode without resetting the instrument. The • button will always sequence the instrument thru the menu items.

The **O** button has two functions:

- 1. To save a selected flashing display
- 2. To direct the instrument to the next submenu level

RUN Mode:

- causes the display to flash the PEAK with the corresponding value. Press again to go back to RUN Mode
- causes the display to flash VALLEY with the corresponding value. Press again to go back to RUN Mode.
- causes flashing PEAK or VALLEY to reset corresponding values. Pressing twice will cause the display to flash
 sets
 and put the instrument into standby, which disables all outputs and alarms. Press one more time to go back to RUN Mode.

Button Functions in Configuration Mode

Dutton	ı uı	ictions in Configuration wode
	•	To enter the Menu, the user must first press ②
9		button.
•	•	Use this button to advance/navigate to the next
MENU		menu item. The user can navigate through all the
		top level menus by pressing .
	•	While a parameter is being modified, press ② to
		escape without saving the parameter.
	•	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
DK/CDC		is currently being modified.
PK/GRS (UP)	•	Holding the b utton down for approximately
(0F)		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
TARE		modify.
(DOWN)	•	When a setpoint value is displayed press ♥ to
		decrease value of a setpoint that is currently being
		modified. Holding the O 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).
	•	Press the enter ② button to access the submenus
		from a Top Level Menu item.
	•	Press O to store a submenu selection or after
ן ט		entering a value — the display will flash a 5 t R d
ENTER		message to confirm your selection.
	•	To reset flashing PEAK or GROSS press .
	•	In the Run Mode, press ② twice to enable
		Standby Mode with flashing 5 to 5.
		· · · · · · · · · · · · · · · · · · ·



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

DISPLAY ABBREVIATIONS

SP1 CNFG	Cot Doint 1 Value	l	
	Set Point 1 Value	SP2	Set Point 2 Value
CNEG	Configuration Menu	INPt	Input Type (Rang
INPt	Input Type (range)	0 - 0.1	100 mV Input
	pat Typo (range)		Voltage
0 - 1.0	1 V Input Voltage	0 - 10	10 V Input Voltag
0 - 1.0	20 mA Input Current	0 - 10	10 v iliput voitag
		DECO	Dianley Decelutio
Rtio	Ratiometric Operation	RESO	Display Resolutio
bUtN	Button Peak/Gross	PEAk	Peak Value
GROS	Gross Value		
RdG	Reading Configuration		
dEC	Decimal Point	F.FFF	Decimal Point
		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	The constant value		and Offset Menu
	Input 1	D4 4	
IN 1	Input 1	Rd 1	Reading 1
IN 2	Input 2	Rd 2	Reading 2
IN 10	Input 10	Rd 10	Reading 10
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/Belov
			Low
bANd	Above or Below Band	A.P.oN	AlarmEnable/Disab
DANG	Above of Below Baria	A.1 .011	at Power On
41.51	Alarm Low Value	ALR.H	Alarm High Value
		ALK.D	Mailli Hiuli Valu e
		7 12 1 11 1	3
ALR.2	Alarm 2 Menu		, , , , , , , , , , , , , , , , , , ,
ALR.2 SP.dN	Alarm 2 Menu Set Point Deviation		
ALR.2 SP.dN Id	Alarm 2 Menu Set Point Deviation ID Code Menu	CH.ld	Change ID Code
ALR.2 SP.dN Id FULL	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID	CH.Id SP.Id	Change ID Code Set Point ID
ALR.2 SP.dN Id FULL	Alarm 2 Menu Set Point Deviation ID Code Menu	CH.Id	Change ID Code Set Point ID Communication is
ALR.2 SP.dN Id FULL COMM	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option*	CH.Id SP.Id NONE	Change ID Code Set Point ID Communication is Not Installed
ALR.2 SP.dN Id FULL COMM	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication	CH.Id SP.Id	Change ID Code Set Point ID Communication is
ALR.2 SP.dN Id FULL COMM	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters	CH.Id SP.Id NONE	Change ID Code Set Point ID Communication is Not Installed Baud Rate
SP.dN Id FULL COMM C.PAR	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity	CH.Id SP.Id NONE bAUd	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd
SP.dN Id FULL COMM C.PAR PRtY EVEN	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even	CH.Id SP.Id NONE bAUd odd_ _No_	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No
SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit	CH.Id SP.Id NONE bAUd oddNo 7.bit	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit	CH.Id SP.Id NONE bAUd odd No 7.bit StOP	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit	CH.Id SP.Id NONE bAUd odd No 7.bit StOP 2.bit	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format	CH.ld SP.ld NONE bAUd odd No 7.bit StOP 2.bit M.bus	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F _LF_	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed	CH.Id SP.Id NONE bAUd odd	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication	CH.ld SP.ld NONE bAUd odd No 7.bit StOP 2.bit M.bus	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard	CH.Id SP.Id NONE bAUd odd	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232
SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485_	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485	CH.Id SP.Id NONE bAUd odd No 7.bit StOP 2.bit M.bus ECHO 232C	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485_ CMd_	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode	CH.Id SP.Id NONE bAUd odd No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode
SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation	CH.Id SP.Id NONE bAUd odd No 7.bit StOP 2.bit M.bus ECHO 232C	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode
SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character	CH.Id SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space
SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485_ CMd_	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return	CH.Id SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485_ CMd_ SEPR _CR_	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character	CH.Id SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return Alarm Status	CH.Id SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading Value
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485_ CMd_ SEPR _CR_	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return Alarm Status Transmit Peak Value	CH.Id SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading Value Transmit Gross Value
SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAK UNit	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return Alarm Status Transmit Peak Value Units of Measurement	CH.Id SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading Value Transmit Gross Value
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485_ CMd_ SEPR cR_ stAt PEAK UNit tR.tM	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return Alarm Status Transmit Peak Value Units of Measurement Transmit Color Selection	CH.Id SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading Value Transmit Gross Valu Multipoint Addres
SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAK UNit tR.tM COLR	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return Alarm Status Transmit Peak Value Units of Measurement Transmit Color Selection Display Color Selection	CH.Id SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading Value Transmit Gross Valu Multipoint Addres
SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 1.CLR	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return Alarm Status Transmit Peak Value Units of Measurement Transmit Color Selection Display Color Selection Alarm 1 Color Display	CH.Id SP.Id NONE bAUd odd No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR 2.CLR	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading Value Transmit Gross Valu Multipoint Addres Normal Color Display Alarm2 Color Display
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 1.CLR REd	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return Alarm Status Transmit Peak Value Units of Measurement Transmit Color Selection Display Color Selection Alarm 1 Color Display Display Color is Red	CH.Id SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading Value Transmit Gross Valu Multipoint Addres Normal Color Display Alarm2 Color Display
SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 1.CLR REd GRN	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return Alarm Status Transmit Peak Value Units of Measurement Transmit Color Selection Display Color is Red Display Color is Red Display Color is Green	CH.Id SP.Id NONE bAUd odd No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR 2.CLR AMbR	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading Value Transmit Gross Valu Multipoint Addres Normal Color Display Alarm2 Color Display Display Color is Ambo
ALR.2 SP.dN Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 1.CLR REd	Alarm 2 Menu Set Point Deviation ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return Alarm Status Transmit Peak Value Units of Measurement Transmit Color Selection Display Color Selection Alarm 1 Color Display Display Color is Red	CH.Id SP.Id NONE bAUd odd No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR 2.CLR	Change ID Code Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading

* For abbreviations of Communication Option see Communication Manua