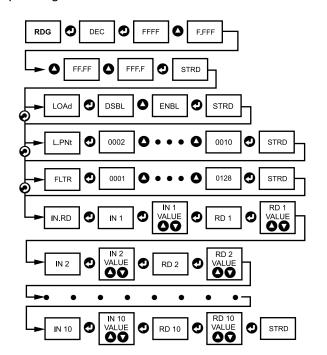


READING CONFIGURATION SETUP (operation example)

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)

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:

	GREEN	RED	AMBER	
0	AL2.H=200		H=400	

Example 2:

Set Point 1: 200 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:

•	•	•	D AMBEF	
 180	 		220	

SPECIFICATION

Accuracy:

0.03% rdg.

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") with red, green and amber programmable colors

Input Types:

Current:

Analog Voltage and Current

Voltage: 0 to 100 mV, 0 to 1 V (+100 mV),

0 to 10 Vdc

Input Impedance:

10 MΩ for 100 mV

1 MO for 1 or 10 Vdc

0 to 20 mA (5 Ω load) Output 11:

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

Output 21:

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

Only with -AL option **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

Low Voltage Power Option: 12 - 36 Vdc, 3 W**

* Units can be powered safely with 24 Vac but No Certification for CE/UL are claimed

Dimensions:

Standard Unit iSDR: 92.5H x 125.2D x 24.9mm W (3.64 x 4.93 x 0.98") Ethernet Unit iSDR-EI/C4EI: 92.5H x 125.2D x 39.8mm W (3.64 x 4.93 x 1.55")

Weight:

__g (0.__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 connected applications.

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.

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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. 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 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.

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 REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESO RIMPLIED, 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 purchaser set forth herein 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 Productlys 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 WARRANTPOISCLAIMER 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) 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

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

FOR WARRANTY RETURNS, please have the following information available BEFORE tollowing information contacting OMEGA:

- Purchase Order number under which the product was PURCHASED.
- Repair instructions and/or specific problems relative to the product.
- Model and serial number of the product under warranty, and
- 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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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 C.2 PSAIN 2039150; 2048006 / UR Patent No. GB2 249 837; GB2 248 994 / FRANCE BREVET NO. 91 12756. The "Meter Bezel Design" is a trademark of Newport Electronics, Inc. USED UNDER LICENSE. Other U.S. and International Patents pending or applied for.





Series

iSDR DIN Rail Strain & Process



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MQS3850/0905

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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 protected in accordance with EN 61010-1:2001, electrical safety requirements for electrical equipment for measurement, control and laboratory. 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.

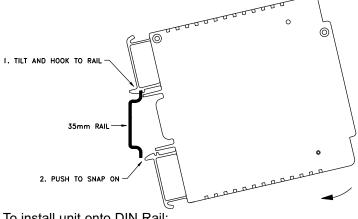
SAFETY:

- · Do not exceed voltage rating on the label located on the side 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:

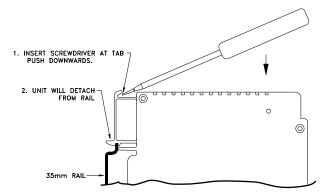
- Whenever EMC is an issue, always use shielded cables.Never run signal and power wires in the same conduit.
- Use signal wire connections with twisted-pair cables.
- Install Ferrite Bead(s) on signal wire close to the instrument if EMC problems persist.

MOUNTING



To install unit onto DIN Rail:

- 1) Tilt unit, position mounting slot onto DIN Rail, as shown.
- 2) Push unit towards DIN Rail and it will snap into place.



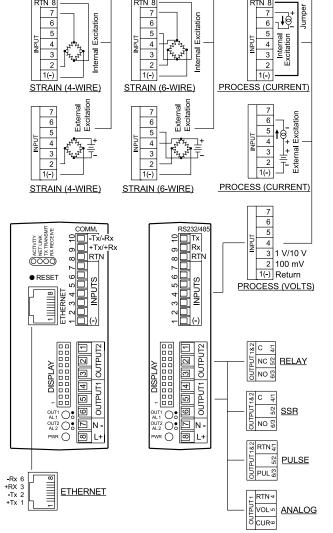
To remove unit from DIN Rail:

- 1) Insert flat screw-driver into tab and push downwards.
- 2) Unit will detach from DIN Rail.

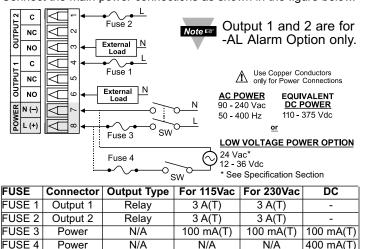
Wire the instrument according to the figure shown below.



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!



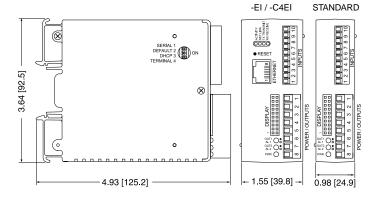
Connect the main power connections as shown in the figure below.





If instrument has the communication option, the internal excitation is not available. Use external excitation to power your transducer.

DIMENSIONS



CONFIGURATION



The following steps for configuring your device are explained by using the optional Remote Programmer Display (iDRP), you may also configure your device through the Networking or Communication option (-C24, -C4EI or -EI).

Button	Functions in Configuration Mode
	To enter the Menu, the user must first press button.
O	Use this button to advance/navigate to the next
MENU	menu item. The user can navigate through all the
	top level menus by pressing ② .
	 While a parameter is being modified, press 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
0	that is currently being modified.
PK/GRS	Holding the button down for approximately
(UP)	3 seconds will speed up the rate at which the
	setpoint value is incremented.
	 In the Run Mode pressing a 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
0	right allowing the user to select the desired digit to
TARE	modify.
(DOWN)	vinon a corponit value is displayed proce • 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).
	• Press the enter 9 button to access the submenus from a Top Level Menu item.
	 Press ② to store a submenu selection or after
0	entering a value — the display will flash a 5 t R d
ENTER	message to confirm your selection.
LIVIER	To reset flashing PEAK or GROSS press ②.
	• In the Run Mode, press ② twice to enable
	Standby Mode with flashing 5 to 5 t
<u> </u>	tanas in the matter of the state of the stat



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

DISPLAY ABBREVIATIONS

SP1	Set Point 1 Value	SP2	Set Point 2 Value
CNFG	Configuration Menu	INPt	
INPt	Input Type (range)	0 - 0.1	100 mV Input Voltage
0 - 1.0	1 V Input Voltage	0 - 10	10 V Input Voltage
0 - 20	20 mA Input Current		1 5
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 Position
LOAd	Input Load	EnbL	Scaling with Known Loads (Actual Value)
DSbL	Scaling without Known Loads (Calculated Value)	L.PNt	Linearization Points
0002 0010	Number of Linearization Points	FLtR	Filter Constant
0001 0128	Filter Constant Value	IN.Rd	Input/Reading Scale and Offset Menu
IN 1	Input 1	Rd 1	Reading 1
IN 1	Input 1 Input 2	Rd 2	Reading 1 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 Type Active Below	Hi.Lo	Above High/Below
bANd	Above or Below Band	A.P.oN	Alarm Enable/Disable
ALDI	Alarm Law Value	ALR.H	at Power On
ALR.L ALR.2	Alarm Low Value Alarm 2 Menu	ALK.n	Alarm High Value
SP.dN	Set Point Deviation		
Id		CHIA	Changa ID Cada
FULL	ID Code Menu Full ID	CH.Id SP.Id	Change ID Code Set Point ID
COMM	Communication Option*	NONE	Communication is
COMM	Communication Option	NONE	Not Installed
		bAUd	Baud Rate
C.PAR	Communication Parameters	12.10.0	
	Parameters		Odd
PRtY	Parameters Parity	odd_	Odd
PRtY EVEN	Parameters Parity Even	odd_ _No_	No
PRtY EVEN dAtA	Parameters Parity Even Data Bit	odd_ _No_ 7.bit	No 7 Data Bit
PRtY EVEN dAtA 8.bit	Parameters Parity Even Data Bit 8 Data Bit	odd_ _No_ 7.bit StOP	No 7 Data Bit Stop Bit
PRtY EVEN dAtA 8.bit 1.bit	Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit	odd_ _No_ 7.bit StOP 2.bit	No 7 Data Bit Stop Bit 2 Stop Bit
PRtY EVEN dAtA 8.bit 1.bit bus.F	Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format	odd_ _No_ 7.bit StOP 2.bit M.bus	No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol
PRtY EVEN dAtA 8.bit 1.bit	Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication	odd_ _No_ 7.bit StOP 2.bit	No 7 Data Bit Stop Bit 2 Stop Bit
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd	Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard	oddNo7.bit StOP 2.bit M.bus ECHO 232C	No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd	Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485	oddNo7.bit StOP 2.bit M.bus ECHO 232C	No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485_ CMd_	Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt	No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode
PRtY EVEN dAtA 8.bit 1.bit bus.F _LF StNd 485_ CMd_ SEPR	Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE	No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR	Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE	No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode
PRtY EVEN dAtA 8.bit 1.bit bus.F _LF StNd 485_ CMd_ SEPR	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	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE	No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR	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	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE	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
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit	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 Units of Measurement	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG	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
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM	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	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR	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 Multipoint Address
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR	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	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR	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 Multipoint Address Normal Color Display
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM	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 Display	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR	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 Multipoint Address Normal Color Display
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR -cR stAt PEAk UNit tR.tM COLR	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	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR	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 Multipoint Address Normal Color Display Alarm 2 Color Display Display Color is
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 1.CLR REd	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 Display Color is Red	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR 2.CLR	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 Multipoint Address Normal Color Display Alarm 2 Color Display
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	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 Display	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR	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 Multipoint Address Normal Color Display Alarm 2 Color Display Display Color is
PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR -cR stAt PEAk UNit tR.tM COLR 1.CLR REd	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 Display Color is Red	oddNo7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR 2.CLR	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 Multipoint Address Normal Color Display Alarm 2 Color Display Display Color is Amber