FLOW CHART

To the right is a flowchart showing how to navigate through all top level menus by pressing the **1** and **2** buttons.

Underline denotes factory default setup

$N \longmapsto SP2 \rightarrowtail CNFG$				
		a	9	a
		\rightarrow ALR2 \rightarrow R.ADJ		
	DEC CURR/	DSBL/ VALUE	DEFL	C.PAR N.CLR
J, <u>K</u> , I, E, N DN		ENBL <u>000.0</u>		300.600 BED
R, S, b, C	FF.FF BD1	ABSO		1200 AMBER
	F.FFF VALUE	ABSO/	DEFL	
RTD	TEMP OUT1	DEV		4800 2.CLR
/100/500	C VALUE		CH.ID	19200 RED
392.2		LTCH/	EBBC	PRTY AMBER
392.3	FLTR OUT2			
392.4	1, 2, 4, 8, VALUE		FULL	
385.3	16, 32,		<u>DSBL/</u> ENBI	D.BIT
385.4	64, 128	BELO/		
BBOC	IN.RD	HI.LO/	SP.Id	- STOP
	IN1	BAND	DSBL/	<u>1.BIT</u>
0-1.0V	VALUE	ALR.L		
0-10 V		VALUE		BUS.F
0-20 mA	IN 2	<u>-100.0</u>		MBUS
	VALUE	ALR.H		YES/NO
	RD 2	VALUE		YES/NO
	VALUE	<u>400.0</u>		ECHO
				YES/NO
				SIND

INPUT MENU SETUP (operation example)

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

A A-

0.

RUN



DISPLAY COLOR SETUP (examples)

Example 1:

Alarm 2 setup: Absolute, Above, Alarm 2 HI Value "ALR.H" =200 Color Display setup: Normal Color "N.CLR"=Green, Alarm 2 Color "2.CLR"=Red

Display color change sequence:

AL2.H=200

Example 2:

Alarm 2 setup: Deviation, Hi/Low, "ALR.H = 10", "ALR.L = 5" Color Display setup: "N.CLR"=Green, "2.CLR"=Amber

Display color change sequence:

AMBER | GREEN | GREEN | AMBER

210

0	195	200	

SPECIFICATION

<u>232C</u> 485

MODE

<u>CMD</u>

CONT

SEPR

CR

<u>SPACE</u>

DAT.F

STAT YES/NO

RDNG

YES/NO PEAK

YES/NO

VALY

YES/NO

YES/NO

AD:DR

VALUE

<u>0001</u>

TR:TM

VALUE

<u>0016</u>

UNIT

Accuracy:	Output 2 [†] :
0.03% rdg. process typical	Relay: 250 Vac @ 3 A Resistive Load
Resolution:	(SPD I type can be configured as Alarm 2 output): SSR: 20-265 Vac @ 0.05-0.5A
1°/0.1°; 10 μV process	(resistive load), continuous;
Temperature Stability:	DC Pulse: non-isolated 10Vdc @ 20mA
0.04 C/ C RTD; 0.05°C/°C TC @ 25°C (77°E);	Only with -AL Limit Alarm option
50 ppm/°C process	Analog Output 3: (Retransmission) Isolated Analog
Display:	Voltage and Current
4-digits, 9-segments LED,	Current: 10 V max @ 20 mA output
21 mm (0.83") with red, green and	Voltage: 20 mA max for 0 - 10 V output
	Options: Communication
Thermocouple RTD Analog Voltage	RS-232 / RS-405 0/ Excitation: 24 Vdc @ 25 mΔ
and Current	Exc. not available for Low Power Option
TC: (ITS 90)	Line Voltage/Power:
J, K, T, E, R, S, B, C, N, L	90 - 240 Vac <u>+</u> 10%, 50 - 400 Hz* or
100/500/1000 obm Pt sensor	110 - 375 Vdc, equivalent 5 W
2-, 3-, or 4-wire; 0.00385 or	Low Voltage Bower Option:
0.00392 curve	20 - 36 Vdc. 4 W**
Input Impedance:	**Units can be powered safely with 24 Vac
10 M Ω for 100 mV	but, No Certification for CE/UL are claimed.
	Dimensions: <u>48 H y 06 W y 127 D mm (1 89 y 3 78 y 5")</u>
voltage: $0 \text{ to } 100 \text{ mV} (+50 \text{ mV}) = 0 \text{ to } 1 \text{ V}$	Weight:
0 to 10 Vdc	295 g (0.65 lb)
Current:	Approvals:
0 to 20 mA (5 Ω load)	FM, UL, C-UL, CE per EN61010-1:2001
WARNING: These products are not designed connected applications.	for use in, and should not be used for, patient-
This device is marked with the internat	ional caution symbol. It is important to read the
Setup Guide before installing or commissing or commissing to safety and EMC	sioning this device, as the guide contains important
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WARRANTY	//DISCLAIMER
NEWPORT Electronica, las unamente this unit to be for	o of defects in materials and workmanship for a period of

Output 1: not available

NEWPORT Electronics will ex year from the date of purchase. In addition to NEWPORT's standard warranty period, NEWPORT onics will extend the warranty period for four (4) additional years if the warranty card enclosed with each ment is returned to NEWPORT.

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FOR WARRANTY RETURNS, please consult NEWPORT for current repair BEFORE contacting NEWPORT:	FOR NON-WARRANTY REPAIRS, have the following information available charges. Have the following information available BEFORE contacting NEWPORT:
1. Purchase Order number under which	1. Purchase Order number to cover the

- Model and serial number of the
- product under warranty, and

Repair instructions and/or specific problems relative to the product.

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and

2. Model and serial number of product,

Repair instructions and/or specific problems relative to the product.

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i/8 Temperature / Process Monitor / Limit Alarm (-AL) with Isolated Analog **Series Output Board**

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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.newportUS.com/i 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 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 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.

MOUNTING



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 panel.
- 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 board assembly may be removed from the front of the case housing.

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

Panel Mounted

Jumper

- Remove the board assembly from the case by pulling at the sides of the bezel.
 The bezel along with the board assembly will unlatch from the
- case housing.

WIRING

Wire the instrument according to the figure shown below.

novable

∧ 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 2	SSR	0.5 A(T)	0.5 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)

Note S Output 2 is for -AL Limit Alarm Option only.

CONFIGURATION

Button Functions in Configuration Mode

Button	Functions in Configuration Mode
@ MENU	 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 . While a parameter is being modified, press this button to escape without saving the parameter.
O (UP)	 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. Holding the O button down for approximately 3 seconds will speed up the rate at which the set point value is incremented. In the Run Mode pressing O causes the display to flash the PEAK value – press again to return to the Run Mode.
O (DOWN)	 Press the down ● button to go back to a previous Top Level Menu item. Press this button twice to reset the monitor to the Run Mode. When a numerical value is flashing (except set point value) press this button to scroll digits from left to right allowing the user to select the desired digit to modify. When a set point value is displayed press this button to decrease value of a set point 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 the Valley value - press again to return to the Run Mode
O ENTER	 Press this button to access the submenus from a Top Level Menu item. Press this button to store a submenu selection or after entering a value — the display will flash a SERd message to confirm your selection. Press this button to reset flashing PEAK or VALLEY value.
Note জ্ব	Reset: Except for Alarms, modifying any settings of the menu configuration will reset the controller prior

to resuming Run Mode.

DISPLAY ABBREVIATIONS

_	Set Point 2 Value	CNFG	Configuration Menu
INPt	Input Type Menu	t.c	Thermocouple Input
kJ	Thermocouple Type	Rtd	RTD Input
385.2	RTD Curve and	100	100 /500 /1000
	Connection Type		RTD Sensor
392.4	(2, 3, 4-Wire)	1000	
PROC	Process Input		
0 - 0.1	100 mV Input Voltage	0 - 1.0	1 V Input Voltage
0 - 20	20 mA Input Current	0 - 10	10 V Input Voltage
RdG	Reading Configuration	dEC	Decimal Point
F.FFF.	Decimal Point	FLtR	Filter Constant
FFFF	Position		
TEMP	Unit of Temperature	С	Celcius
F	Fahrenheit		
0001	Filter Constant Value	IN.Rd	Input/Reading Scale
0128			and Offset Menu
IN 1	Input 1	IN 2	Input 2
Rd 1	Reading 1	Rd 2	Reading 2
ANLG	Analog Output		
VoLt	Voltage Output	CURR	Current Output
Out.1	Output 1	Rd 1	Reading 1
Out.2	Output 2	Rd 2	Reading 2
ALR2	Alarm 2 Menu	AbSo	Absolute Mode
_dEV	Deviation Mode	LtcH	Latched Mode
UNLt	Unlatched Mode		
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		
ALR.L	Alarm Low Value	ALR.H	Alarm High Value
ld	ID Code Menu	CH.Id	Change ID Code
FULL	Full ID	SP.Id	Set Point ID
СОММ	Communication Option*	NONE	Communication is
	-		Not Installed
	Communication	bAUd	Baud Rate
C.PAR	Communication		Baaa rato
	Parameters	odd	Odd
C.PAR PRtY	Parameters Parity Even	odd	Odd
C.PAR PRtY EVEN dAtA	Parameters Parity Even Data Bit	odd _No 7 bit	Odd No 7 Data Bit
C.PAR PRtY EVEN dAtA 8.bit	Parameters Parity Even Data Bit 8 Data Bit	odd _No 7.bit StOP	Odd No 7 Data Bit Stop Bit
C.PAR 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	Odd No 7 Data Bit Stop Bit 2 Stop Bit
C.PAR 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	Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol
C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF	Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed	odd_ No_ 7.bit StOP 2.bit M.bus ECHO	Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo
C.PAR 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	odd No 7.bit StOP 2.bit M.bus ECHO 232C	Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232
C.PAR 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 Data Sc	odd No 7.bit StOP 2.bit M.bus ECHO 232C	Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232
C.PAR 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 Made	odd No 7.bit StOP 2.bit M.bus ECHO 232C ModE	Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode
C.PAR 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	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C ModE CoNt SPCE	Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode
C.PAR 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	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C ModE CoNt SPCE	Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space
C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR	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	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C ModE CoNt SPCE	Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format
C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt	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	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C ModE CoNt SPCE dAt.F RdNG	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
C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF_ StNd 485 CMd_ SEPR cR_ stAt	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	odd No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG	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
C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk	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	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C ModE CoNt SPCE dAt.F RdNG	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
C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk	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	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C 232C 232C CONt SPCE dAt.F RdNG GROS	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
C.PAR 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 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 T	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C 232C ModE CoNt SPCE dAt.F RdNG GROS AddR	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 Multipoint Address
C.PAR 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 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 Time Interval Display Onlog 2 Lighting	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C 232C CoNt SPCE dAt.F RdNG GROS AddR	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 Multipoint Address
C.PAR 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 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 Time Interval Display Color Selection	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C 232C 232C CoNt SPCE dAt.F RdNG GROS AddR	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 Multipoint Address Normal Color Display
C.PAR 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 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 Time Interval Display Color Selection Alarm 2 Color Display	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR	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 Multipoint Address Normal Color Display
C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 2.CLR AMP D	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 Time Interval Display Color Selection Alarm 2 Color Display Diaplay Color in Amber	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR	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 Multipoint Address Normal Color Display Display Color is Red
C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 2.CLR AMbR ENIST	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 Time Interval Display Color Selection Alarm 2 Color Display Display Color is Amber Enable	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR REd GRN	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 Multipoint Address Normal Color Display Display Color is Red Display Color is Green
C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 2.CLR AMbR ENBL EDB-	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 Time Interval Display Color Selection Alarm 2 Color Display Display Color is Amber Enable Error	odd No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR REd GRN dSbL	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 Multipoint Address Normal Color Display Display Color is Red Display Color is Green Disable
C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 2.CLR AMbR ENbL ERRO	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 Time Interval Display Color Selection Alarm 2 Color Display Display Color is Amber Enable Error Insult (b) Open	odd No 7.bit StOP 2.bit M.bus ECHO 232C 232C 232C CONt SPCE dAt.F RdNG GROS AddR GROS AddR N.CLR REd GRN dSbL + OL	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 Multipoint Address Normal Color Display Display Color is Red Display Color is Green Disable Input (+) Overload

*For abbreviations of Communication Option see Communication Manual