FLOW CHART

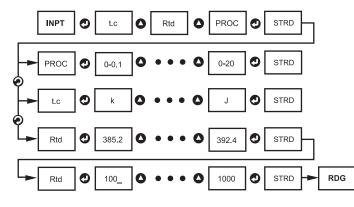
To the right is a flowchart showing how to navigate through all top level menus by pressing the 🕗 and 🕗 buttons.

> Underline denotes factory default setup

$\begin{array}{c} \bullet & \bullet \\ \hline FULL \\ \bullet & \bullet \\ \hline FUL \\ \bullet \\ \hline FULL \\ \bullet \\ FULL \\ \bullet \\ \hline FULL \\ FULL \\ \hline FULL \\ \hline FULL \\ FULL \\ \hline FULL \\ FULL \\ \hline FULL \\ FU$		$\begin{array}{c} \bullet & \bullet \\ \bullet & \bullet \\ \bullet & R.ADJ \to & CAL^\circ \end{array}$	→ ID → COMM → CO:LR	
TC J, K, T, E, N, DNJ, R, S, b, C RTD 100/500 /1000 392.2 392.3 392.4 385.2 385.4 PROC 0-0.1 V 0-1.0 V 0-20 mA	DEC CURR/ FFFFF RD1 FF.FF RD1 FF.FF RD1 VALUE OUT1 C RD2 VALUE VALUE FLTR OUT2 1,2,4,8, VALUE 16,32, 64,128 IN.RD IN1 VALUE VALUE RD1 VALUE VALUE VALUE IN1 VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE VALUE	DSBL/ ENBL VALUE 000.0 ABSO ABSO/ DEV VALUE LTCH LTCH/ UNLT ACTV ABOV/ BELO/ HILO/ BAND ALR.L VALUE VALUE 400.0	DEFLT CH.ID 0000 300,600 1200 300,600 1200 AMBER CH.ID DEFLT 4800 CH.ID 0000 1200 2400 DEFLT 4800 CH.ID 19200 CH.ID CH.ID 19200 CH.ID	

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.



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:

GREEN

AL2.H=200

Example 2:

Ω

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

RED

-->

Display color change sequence:

GREEN | GREEN | AMBER AMBER |

•->			•
0	195	200	210

SPECIFICATION Output 1: not available Accuracy: <u>+0.5°C temp;</u> Output 2[†]: Relay: 250 Vac @ 3 A Resistive Load (SPDT type can be configured as Alarm 2 output); SSR: 20-265 Vac @ 0.05-0.5A 0.03% rdg. process typical **Resolution:** 1°/0.1°; 10 µV process Temperature Stability: 0.04°C/°C RTD; 0.05°C/°C TC @ 25°C (77°F); 50 ppm/°C process Display: 4-digits, 9-segments LED, 10.2 mm (0.40") with red, green and amber programmable colors Input Types: mocouple, RTD, Analog Voltage and Current **TC: (ITS 90)** J, K, T, E, R, S, B, C, N, L RTD: (ITS 68) 100/500/1000 ohm Pt sensor 2-. 3-. or 4-wire: 0.00385 or 0.00392 curve Input Impedance: 10 MΩ for 100 mV $1 \text{ M}\Omega$ for 1 or 10 Vdc Dimensions: Voltage: 0 to 100 mV (±50 mV), 0 to 1 V, 0 to 10 Vdc Current: 0 to 20 mA (5 Ω load) connected applications TRADEMARK NOTICE: OMEGA ENGINEERING, INC. MAD WARRANTY/DISCLAIMER , INC. warrants this unit to be free of defects in materials and workmanship for a period of te of purchase. In addition to OMEGA's standard warranty period, OMEGA Engineering will iod for **four (4) additional years** if the warranty card enclosed with each instrument is must be returned to the factory for evaluation. OMEGA's Customer Service Department will It must be returned to the ractory for evaluation. ONECAS Customer Service Department will run (AR) number immediately upon phone or written request. Upon examination by OMEGA, defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply any action of the purchaser, including but not limited to mishandling, improper interfacing, ign limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit g been tampered with or shows evidence of having been damaged as a result of excessive at, moisture or vibration; improper specification; misapplication; misape or other operating MEGA's control. Components which wear are not warranted, including but not limited to d triacs. No fifer suggestions on the use of its various products. However, OMEGA neither y for any omissions or errors nor assumes liability for any damages that result from in accordance with information provided by OMEGA, either verbal or written. OMEGA parts manufactured by it will be as specified and free of defects. OMEGA MAKES NO SOR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, TILE, AND ALL IMPLIED WARRANTES INCLUDING ANY WARRANTY OF NO FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION edites of purchase rate forth herein are exclusive, and the total liability of OMEGA with whether based on contract, warranty, negligence, indemnification, strict liability or for consequential, incidental or special damages. ent sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basi "R 21 (NRC), used in or with any nuclear installation or activity, or (2) in medical application uid any Product(s) be used in or with any nuclear installation or activity, medical application misused in any way, OMEGA assumes no responsibility as set forth in our basi R language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmles ge whatsoever arising out of the use of the Product(s) in such a manner. RETURN REQUESTS/INQUIRIES

repair requests/inquiries to the OMEGA Customer Service Department. BEFORE DUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) AS'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING 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 in transit

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

3. Repair instructions and/or specific problems relative to the product. 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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(resistive load), continuous; DC Pulse: non-isolated 10Vdc @ 20mA [†] Only with -AL Limit Alarm option Analog Output 3: (Retransmission) Isolated Analog Voltage and Current Current: 10 V max @ 20 mA output Voltage: 20 mA max for 0 - 10 V output **Options: Communication** RS-232 / RS-485 or Excitation: 24 Vdc @ 25 mA Exc. not available for Low Power Option Line Voltage/Power: 90 - 240 Vac ±10%, 50 - 400 Hz* or 110 - 375 Vdc, equivalent 5 W * No CE compliance above 60 Hz Low Voltage Power Option: 20 - 36 Vdc, 4 W** **Units can be powered safely with 24 Vac but, No Certification for CE/UL are claimed

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

Approvals: FM, 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.

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USA
OMEGA ENGINEERING, one (1) year from the dat extend the warranty peri returned to OMEGA.
If the unit malfunctions, it issue an Authorized Retur if the unit is found to be du to defects resulting from a operation outside of desig shows evidence of having corrosion; or current, hea conditions outside of OM contact points, fuses, and
OMEGA is pleased to assumes responsibility the use of its products i warrants only that the p OTHER WARRANTIES EXCEPT THAT OF T MERCHANTABILITY AN OF LIABILITY: The reme respect to this order, w otherwise, shall not exc shall OMEGA be liable f
CONDITIONS: Equipme Component under 10 CF or used on humans. Shou used on humans, or m WARRANTYDISCLAIMEF from any liability or dama
Direct all warranty and RETURNING ANY PROD
NUMBER FROM OMEG DELAYS). The assigned

FOR WAR following contacting Purc

Mode

<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

UNIT

YES/NO AD:DR VALUE <u>0001</u>

TR:TM

VALUE

<u>0016</u>

QUICK START



CE

Temperature & Process Series Monitor DPi16A Limit Alarm CNi16A-AL with Isolated Analog Output Board

			GA
		et® Online Service mega.com	Internet e-mail info@omega.com
		Servicing North A	America:
U.S.A.		Omega Engineering, Inc., One	Omega Drive, P.O. Box 4047
150 90	01 Certified	Stamford, CT 06907-0047 USA Toll Free: 1-800-826-6342 FAX: (203) 359-7700	TEL: (203) 359-1660 e-mail: info@omega.com
Cana	da:	976 Berar Laval (Quebec), H7L 5A1, Can Toll-Free: 1-800-826-6342	TEL: (514) 856-6928
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U.S.A		Sales Service: 1-800-826-6342/1 Customer Service: 1-800-622-23 Engineering Service: 1-800-872	378/1-800-622-BEST®
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Czecł	n Republic:	Frystatska 184 733 01 Karviná, Czech Republi TEL: +420-59-6311899 e-mail: info@omegashop.cz	c FAX: +420-59-6311114
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	d Kingdom: 01 Certified	OMEGA Engineering Ltd. One Omega Drive, River Bend Irlam, Manchester M44 5BD U Toll-Free: 0800-488-488 FAX: +44 (0) 161 777-6622	Technology Centre, Northbank nited Kingdom TEL: +44 (0) 161 777-6611 e-mail: sales@omega.co.uk

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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 as free Software are available at www.omega.com/specs/iseries.

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 circuitbreaker that must be compliant to IEC 947-1 and 947-3.

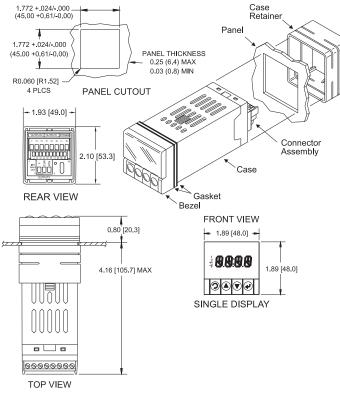
SAFETY:

- 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. Insert the unit into the opening from the front of the panel, so the gasket seals between the bezel and the front of the panel.
- 3. Slide the retainer over the rear of the case and tighten against the backside of the mounting panel.

Disassembly Instruction:

If necessary, the board assembly may be removed from the front of the case housing.

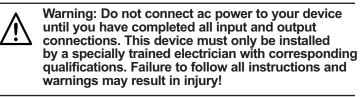
Warning: Disconnect all ac power from the unit before proceeding.

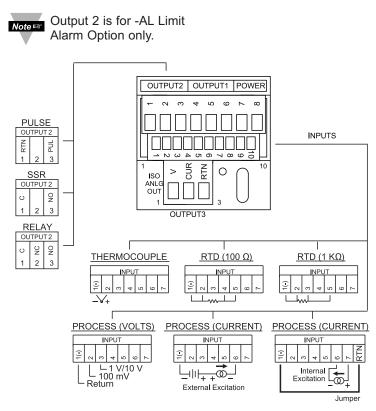
Panel Mounted

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

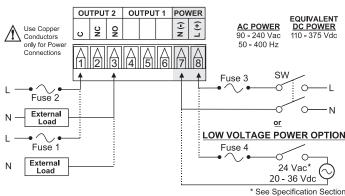


Removable Wire the instrument according to the figure shown below.





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 Coutput 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 O. 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 Pure Mede
O ENTER	 Run Mode. 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 SERO message to confirm your selection. Press this button to reset flashing PEAK or VALLEY value.
Neters	Reset: Except for Alarms, modifying any settings of



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

DISPLAY ABBREVIATIONS

SP2 Set Point 2 Value CNFG Configuration Menu INPt Input Type Menu t.c Thermocouple Input 385.2 RTD Curve and 100 RTD Sensor 385.2 RTD Curve and 100 RTD Sensor 392.4 (2, 3, 4-Wire) 100 RTD Sensor 9.0 100 WI Input Voltage 0 - 10 10 V Input Voltage 0 - 20 20 mA Input Current 0 - 10 10 V Input Voltage RdG Reading Configuration dEC Decimal Point FFFF Decimal Point FItr Filter Constant TEMP Unit of Temperature C Celcius F Fahrenheit Decimal Point Rtd Input 2 Rd1 Reading 1 Rd 2 Reading 2 Alta AR1 Reading 1 Rd 2 Reading 1 Dut 2 Volt Voltput 1 Rd 1 Reading 1 Dut 2 Output 1 Rd 2 Reading 1 Dut 2 Volt <th>SP2</th> <th></th> <th>1</th> <th></th>	SP2		1	
kJ Thermocouple Type Rtd RTD Input 385.2 RTD Curve and 100		Set Point 2 Value	CNFG	
kJ Thermocouple Type Rtd RTD Input 385.2 RTD Curve and 100	INPt	Input Type Menu	t.c	Thermocouple Input
385.2 RTD Curve and Connection Type 100 RTD Sensor 392.4 (2, 3, 4-Wire) 1000 PROC Process Input Input Voltage 0 - 0.1 100 m/ Input Voltage 0 - 1.0 1 V Input Voltage RdG Reading Configuration dEC Decimal Point FFFF Decimal Point FLIR Filter Constant refFFF Decimal Point FLIR Filter Constant motion Filter Constant Value Input/Reading Scale and Offset Menu N1 Input 1 IN 2 Input/Reading Scale and Offset Menu N1 Input 1 IN 2 Input 2 Rd 1 Reading 1 Rd 2 Reading 2 ANLG Analog Output CURR Current Output Out.1 Output 1 Rd 1 Reading 2 ALR2 Alarm 2 Menu Abov Absolute Mode dEV Deviation Mode LtcH Latched Mode UNL1 Unlatched Mode Low Nomally Open N.c. Normally Open N.c. Normally Closed Actv Above High/Below	kJ	Thermocouple Type	Rtd	
Connection TypeRTD Sensor392.4(2, 3, 4-Wire)1000PROCProcess Input00 - 0.1100 mV Input Voltage0 - 1.00 - 0.220 mA Input Current0 - 1010 V Input VoltageRdGReading ConfigurationdECDecimal PointFFFF.Decimal PointFLIRFilter Constant		· · · ·		
392.4 (2, 3, 4-Wire) 1000 PROC Process Input			_	PTD Sensor
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.FF. Decimal Point FLR Filter Constant TEMP Unit of Temperature C Celcius F Fahrenheit Input 7 IN 2 Input 7 0001 Filter Constant Value IN.Rd Input78 Rd 1 Reading Configuration Rd 2 Reading Scale and Offset Menu IN 1 Input 1 IN 2 Input 2 Rd 1 Rd 1 Reading 1 Rd 2 Reading 2 ANLG Analog Output CURR Current Output Out.1 Output 2 Rd 2 Reading 2 ALR2 Alarm 2 Menu AbSo Absolute Mode UNL Unlatched Mode LtcH Latched Mode No. Normally Open N.c. Normally Closed ActV Active Below Band Atrue Alarm High Value				KID Selisor
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0 - 20 20 mA Input Current 0 - 10 10 V Input Voltage RdG Reading Configuration dEC Decimal Point F.FFF. Decimal Point Filter Constant TEMP Unit of Temperature C Celcius F Fahrenheit Input/Reading Scale and Offset Menu IN1 Input 1 IN 2 Input 2 Rd1 Reading 1 Rd 2 Reading 2 ANLG Analog Output Current Output Volt Voltage Output CURR Current Output Out.1 Output 2 Rd 1 Reading 1 Out.2 Output 2 Rd 2 Reading 1 Out.2 Output 2 Rd 2 Reading 1 Out.2 Output 1 Rd 1 Reading 1 Out.2 Output 2 Rd 2 Reading 1 Out.2 Output 2 Rd 2 Reading 1 ALR2 Alarm 2 Menu AbSo Absolute Mode Larex Alarm 2 Menu AbSo Absolute Mode ALR2 Alarm 2 Menu AbSo Absolute Mode Larex Alarm 2 Menu Abso Absolute Mode Larex Active Stop Abov Active Active Type <				
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RdG Reading Configuration dEC Decimal Point F.FFF. Decimal Point FLtR. Filter Constant TEMP Unit of Temperature C Celcius F Fahrenheit Input/Reading Scale .0128 Input 1 IN 2 Input 2 Rd 1 Reading 1 Rd 2 Reading 2 ANLG Analog Output CURR Current Output Volt Voltage Output CURR Current Output Out.1 Output 1 Rd 1 Reading 1 Out.2 Output 2 Rd 2 Reading 1 Out.2 Output 1 Rd 1 Reading 2 ALR2 Alarm 2 Menu AbSo Absolute Mode UNLt Unlatched Mode Leth Latched Mode No. Normally Open N.c. Normally Closed ActV Active Type AboV Active Above bELo Active Type AboV Active Above bELL Alarm Low Value ALR.H Alarm High Value Id ID Code Menu CH.id Change ID Code FULL Full ID SPId Set Point ID COMM Communication ShU Baud Rate	0 - 20	20 mA Input Current	0 - 10	10 V Input Voltage
F.FFF. Decimal Point FLtR Filter Constant FFFF Position C Celcius F Fahrenheit Input/Reading Scale and Offset Menu .001 Filter Constant Value IN.Rd Input 2 N1 Input 1 IN 2 Input 2 Rd 1 Reading 1 Rd 2 Reading 2 ANLG Analog Output CURR Current Output Out.1 Output 1 Rd 1 Reading 1 Out.2 Output 2 Rd 2 Reading 1 Out.2 Output 2 Rd 4 Reading 1 Out.2 Output 2 Rd 4 Reading 1 Out.2 Output 4 Abso Absolute Mode No. Normally Open N.c. Normally Closed ALR.4 Alarm Low Value ALR.H Alarm High Value				
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TEMPUnit of TemperatureCCCelciusFFahrenheitInput/Reading Scale0001Filter Constant ValueIN.RdInput/Reading Scale.0128.0128Input 1IN 2Input 2Rd 1Reading 1Rd 2Reading 2ANLGAnalog OutputCURRCurrent OutputVol.tVoltage OutputCURRCurrent OutputOut.1Output 1Rd 1Reading 1Out.2Output 2Rd 2Reading 2ALR2Alarm 2 MenuAbSoAbsolute Mode_dEVDeviation ModeLtcHLatched ModeUNLtUnlatched Mode			FLIK	Filter Constant
F Fahrenheit Input/Reading Scale and Offset Menu 0001 Filter Constant Value IN.Rd Input/Reading Scale and Offset Menu IN 1 Input 1 IN 2 Input 2 Rd 1 Reading 1 Rd 2 Reading 2 ANLG Analog Output CUrrent Output Output 2 Out.1 Output 1 Rd 1 Reading 1 Out.2 Output 2 Rd 2 Reading 1 Out.2 Output 2 Rd 2 Reading 2 ALR2 Alarm 2 Menu AbSo Absolute Mode UNL Unlatched Mode LtcH Latched Mode No. Normally Open N.c. Normally Closed Active Active Below Hi.Lo Above etigh/Below Low baNd Above or Below Band A Installed Communication Option* NONE Communication is Not Installed COMM Communication Option* NONE Communication is Not Installed CPAR Communication Parameters No No Parameters No No No Abata Bit			-	
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0128and Offset MenuIN 1Input 1IN 2Input 2Rd 1Reading 1Rd 2Reading 2ANLGAnalog OutputCURRCurrent OutputOut.1Output 1Rd 1Reading 1Out.2Output 2Rd 2Reading 1Out.2Output 2Rd 2Reading 2ALR2Alarm 2 MenuAbSoAbsolute Mode	F	Fahrenheit		
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PEAkTransmit Peak ValueGROSTransmit Gross ValueUNitUnits of MeasurementAddRMultipoint AddresstR.tMTransmit Time IntervalCOLRDisplay Color SelectionN.CLRNormal Color Display2.CLRAlarm 2 Color DisplayREdDisplay Color is RedAMbRDisplay Color is AmberGRNDisplay Color is GreenENbLEnabledSbLDisable	EVEN dAtA 8.bit 1.bit bus.F LF_ StNd 485 CMd SEPR 	Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return	No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F	No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format
UNitUnits of MeasurementAddRMultipoint AddresstR.tMTransmit Time Interval——COLRDisplay Color SelectionN.CLRNormal Color Display2.CLRAlarm 2 Color DisplayREdDisplay Color is RedAMbRDisplay Color is AmberGRNDisplay Color is GreenENbLEnabledSbLDisable	EVEN dAtA 8.bit 1.bit bus.F LF_ StNd 485 CMd SEPR 	Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication Standard RS-485 Command Mode Data Separation Character Carriage Return	No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F	No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232 Data Flow Mode Continuous Mode Space Data Format Transmit Reading
UNitUnits of MeasurementAddRMultipoint AddresstR.tMTransmit Time IntervalCOLRDisplay Color SelectionN.CLRNormal Color Display2.CLRAlarm 2 Color DisplayREdDisplay Color is RedAMbRDisplay Color is AmberGRNDisplay Color is GreenENbLEnabledSbLDisable	EVEN dAtA 8.bit 1.bit bus.F LF_ StNd 485 CMd SEPR cR_ stAt	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	No 7.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
tR.tM Transmit Time Interval Image: Color Selection N.CLR Normal Color Display 2.CLR Alarm 2 Color Display REd Display Color is Red AMbR Display Color is Amber GRN Display Color is Green ENbL Enable dSbL Disable	EVEN dAtA 8.bit 1.bit bus.F LF_ StNd 485 CMd SEPR cR_ stAt	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	No 7.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
COLRDisplay Color SelectionN.CLRNormal Color Display2.CLRAlarm 2 Color DisplayREdDisplay Color is RedAMbRDisplay Color is AmberGRNDisplay Color is GreenENbLEnabledSbLDisable	EVEN dAtA 8.bit 1.bit bus.F LF_ StNd 485_ CMd_ SEPR cR_ stAt PEAk	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	No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS	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
Alarm 2 Color DisplayDisplay2.CLRAlarm 2 Color DisplayREdDisplay Color is RedAMbRDisplay Color is AmberGRNDisplay Color is GreenENbLEnabledSbLDisable	EVEN dAtA 8.bit 1.bit bus.F LF_ StNd 485_ CMd_ SEPR cR_ stAt PEAk UNit	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	No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS	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
2.CLRAlarm 2 Color DisplayREdDisplay Color is RedAMbRDisplay Color is AmberGRNDisplay Color is GreenENbLEnabledSbLDisable	EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM	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 Time Interval	No 7.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
AMbR Display Color is Amber GRN Display Color is Green ENbL Enable dSbL Disable	EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM	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 Time Interval	No 7.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
ENbL Enable dSbL Disable	EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR	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 Time Interval Display Color Selection	No 7.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 Multipoint Address Normal Color Display
ENbL Enable dSbL Disable	EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR	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 Time Interval Display Color Selection	No 7.bit StOP 2.bit M.bus ECHO 232C 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 Multipoint Address Normal Color Display
ENbL Enable dSbL Disable	EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR	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 Time Interval Display Color Selection	No 7.bit StOP 2.bit M.bus ECHO 232C 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 Multipoint Address Normal Color Display
	EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 2.CLR	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 Time Interval Display Color Selection Alarm 2 Color Display	No 7.bit StOP 2.bit M.bus ECHO 232C 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR REd	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 Display Color is Red
	EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 2.CLR AMbR	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 Time Interval Display Color Selection Alarm 2 Color Display Display Color is Amber	No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR REd GRN	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 Color is Red Display Color is Green
	EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR cR stAt PEAk UNit tR.tM COLR 2.CLR AMbR ENbL	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 Time Interval Display Color Selection Alarm 2 Color Display Display Color is Amber Enable	No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR REd GRN dSbL	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 Display Color is Red Display Color is Green

*For abbreviations of Communication Option see Communication Manual