

Above is a flowchart showing how to navigate through all top level menus by pressing the ② and ② buttons.

Underline denotes factory default setup

DISPLAY COLOR SETUP (examples)

Example 1:

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

STRD

2 RD 10 2

Display colors change sequences:

GREEN	RED	AMBER
0 AL2.H	H=200 AL1.	H=400
Example 2:		
Set Point 1: 200		
Set Point 2: 200		
Alarm 1 setup: [Deviation, Band, "،	ALR.H" = 20
		"ALR.H = 10", "ALR.L = 5"
Color Display se	<u>etup</u> : "N.CLR"=Gre	en, "1.CLR"=Amber,

Display colors change sequences:

		EEN GRE	•	•	
0				220)

SPECIFICATION

Accuracy:

0.03% rda

Resolution: 10 / 1 µV process

Linearization Points:

10 points

Temperature Stability:

50 ppm/°C process

Display:

4-digit. 9-segment LED. 10.2 mm (0.40") with red, green and

Input Types:

amber programmable colors Analog Voltage and Current

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

0 to 10 Vdc

Input Impedance: 10 M Ω for 100 mV

1 MΩ for 1 or 10 Vdc

Current 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 Limitt Alarm option

Options: Communication RS-232 / RS-485 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, 4 W

* No CE compliance above 60 Hz

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:

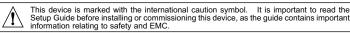
25.4 H x 48 W x 126.3 D mm (1.0 x 1.89 x 5")

Weight: 127 g (0.28 lb)

Approvals:

UL, C-UL, and CE per EN61010-1:2001

WARNING: These products are not designed for use in, and should not be used for, patient-



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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Contact points, tuses, and thacs.

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

FOR <u>WARRANTY</u> RETURNS, please have the following information available BEFORE contacting OMEGA:

- Purchase Order number under which the product was PURCHASED,
- Model and serial number of the product under warranty, and
- Repair instructions and/or specific problems relative to the product.
- current repair charges. Have the following information available BEFORE contacting OMEGA: Purchase Order number to cover the COST of the

FOR NON-WARRANTY REPAIRS, consult OMEGA for

- 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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QUICK START MADE IN ϵ USA



Series

DPiS32 **Process / Strain Gauge Monitor** CNiS32-AL **Process / Strain Limit Alarm**



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MQS3535/0307



This Quick Start Reference provides information on setting up your instrument for basic operation. The latest complete Communication and Operational Manual as well as free Software and ActiveX Controls are available at www.omega.com/specs/iseries or on the CD-ROM enclosed with your shipment.

SAFETY CONSIDERATION



This device is marked with the international Caution symbol.

The instrument is a panel mount device protected in accordance with 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.

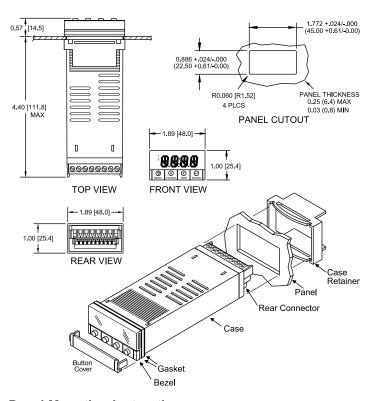
SAFETY:

- 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.
- 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 unit may be removed from the panel and opened.



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

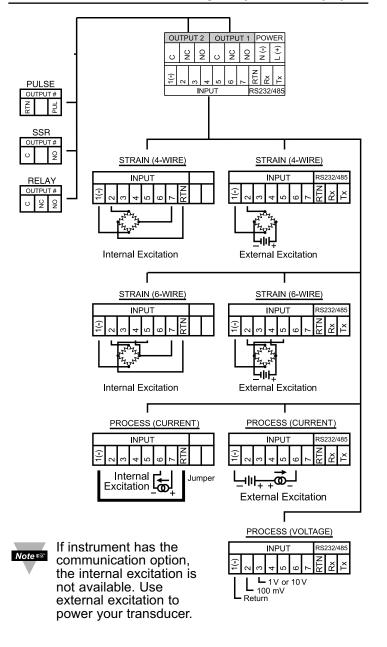
- 1. Make sure the AC power is disconnected.
- 2. Remove all wiring connections from the rear of the meter. To remove power and input connectors bend the side panel detents on the case outward to release the connectors, then pull connectors from the meter.
- 3. To remove meter from the case, squeeze left and right sides of the bezel to release, then pull from case.

WIRING

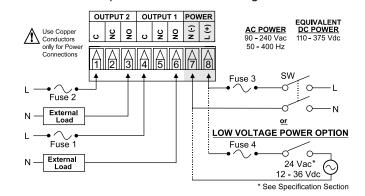
Wire the instrument according to the figure shown below.



Warning: Do not connect ac power to your device until you have completed all input and output connections. This device must only be installed by a specially trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!



Connect the main power connections in the figure shown below.



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



Output 1 and 2 are for -AL Limit Alarm Option only.

CONFIGURATION

Button Functions in Configuration Mode

		•
	•	To enter the Menu, the user must first press ②
		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 ② .
	•	While a parameter is being modified, press ② to
		escape without saving the parameter.
	•	Press the up ② button to scroll through "flashing"
		selections. When a numerical value is displayed
		press this key to increase value of a parameter
Δ .		that is currently being modified.
PK/GRS		Holding the O button down for approximately
(UP)		3 seconds will speed up the rate at which the
		setpoint value is incremented.
	•	In the Run Mode pressing O causes the display to
		flash the PEAK or GROSS value – press again to
		return to the Run Mode.
	•	Press the down ② 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)	•	When a setpoint value is displayed press ♥ to
		decrease value of a setpoint that is currently being
		modified. Holding the • button down for
		approximately 3 seconds will speed up the rate at
		which the setpoint value is decremented.
	•	In the Run Mode pressing ⊙ causes the display to
		flash TARE value to tare your reading (zeroing).
	•	Press the enter ② button to access the submenus
		from a Top Level Menu item.
	•	Press ② to store a submenu selection or after
		entering a value — the display will flash a 5 t Rd
O		message to confirm your selection.
ENTER	•	To reset flashing PEAK or GROSS press 2.
"	•	In the Run Mode, press ② twice to enable
		Standby Mode with flashing 5 + 6 4.



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 - 1.0		0 - 10	TO V IIIPUL VOILAGE
0 - 20	20 mA Input Current	DE00	B: 1 B 1 t:
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
		FFFF	Position
LOAd	Input Load	EnbL	Scaling with Known
			Loads (Actual Value
DSbL	Scaling without Known	L.PNt	Linearization Points
DONE	Loads (Calculated Value)		Lineanzation i ointo
0002	Number of Linearization	FLtR	Filter Constant
0010		I LUX	i illei Constant
0001	Filter Constant Value	IN.Rd	Innut/Dooding Cook
	Filler Constant value	IIN.Ku	Input/Reading Scale
0128	1	D 1 4	and Offset Menu
IN 1	Input 1	Rd 1	Reading 1
IN 2	Input 2	Rd 2	Reading 2
ALR1	Alarm 1 Menu	AbSo	Absolute Mode
_dEV	Deviation Mode	LtcH	Latched Mode
UNLt	Unlatched Mode	Ct.CL	Contact Closure
N.o.	Normally Open	N.c.	Normally Closed
ActV	Active Type	AboV	Active Above
bELo	Active Below	Hi.Lo	Above High/Below
DLLO	/ touve Below		Low
bANd	Above or Below Band	A.P.oN	
DANU	Above of Below Bariu	A.F.ON	
41.51	Alexander Malex	A 1 D 11	at Power On
	Alarm Low Value	ALK.H	Alarm High Value
	Alarm 2 Menu		
SP.dN	Set Point Deviation		
ld	ID Code Menu	CH.ld	Change ID Code
ld FULL	ID Code Menu Full ID	SP.Id	Set Point ID
ld FULL	ID Code Menu	SP.Id	Change ID Code Set Point ID Communication is
Id FULL COMM	ID Code Menu Full ID Communication Option*	SP.Id NONE	Set Point ID
ld FULL	ID Code Menu Full ID Communication Option*	SP.Id	Set Point ID Communication is
Id FULL COMM	ID Code Menu Full ID Communication Option*	SP.Id NONE	Set Point ID Communication is Not Installed
Id FULL COMM	ID Code Menu Full ID Communication Option* Communication Parameters	SP.Id NONE bAUd	Set Point ID Communication is Not Installed Baud Rate
Id FULL COMM C.PAR PRtY	ID Code Menu Full ID Communication Option* Communication Parameters Parity	SP.Id NONE bAUd odd_	Set Point ID Communication is Not Installed Baud Rate Odd
Id FULL COMM C.PAR PRtY EVEN	ID Code Menu Full ID Communication Option* Communication Parameters Parity Even	SP.Id NONE bAUd odd_ _No_	Set Point ID Communication is Not Installed Baud Rate Odd No
Id FULL COMM C.PAR PRtY EVEN dAtA	ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit	SP.Id NONE bAUd odd_ No_ 7.bit	Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit
Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit	ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit	SP.Id NONE bAUd odd_ _No_ 7.bit StOP	Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit
FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit	ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit	SP.Id NONE bAUd odd_ No_ 7.bit StOP 2.bit	Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit
FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F	ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format	SP.Id NONE bAUd odd_ No_ 7.bit StOP 2.bit M.bus	Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol
FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F _LF_	ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed	SP.Id NONE bAUd odd_ No_ 7.bit StOP 2.bit M.bus ECHO	Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo
FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F	ID Code Menu Full ID Communication Option* Communication Parameters Parity Even Data Bit 8 Data Bit 1 Data Bit Bus Format Line Feed Communication	SP.Id NONE bAUd odd_ No_ 7.bit StOP 2.bit M.bus	Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol
FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF_ StNd	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	SP.Id NONE bAUd oddNo_ 7.bit StOP 2.bit M.bus ECHO 232C	Set Point ID Communication is Not Installed Baud Rate Odd No 7 Data Bit Stop Bit 2 Stop Bit Modbus Protocol Echo RS-232
FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485	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	SP.Id NONE bAUd oddNo_ 7.bit StOP 2.bit M.bus ECHO 232C ModE	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
FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd	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	SP.Id NONE bAUd oddNo_ 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt	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
FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F _LF_ StNd 485_	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	SP.Id NONE bAUd oddNo_ 7.bit StOP 2.bit M.bus ECHO 232C ModE	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
FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd	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	SP.Id NONE bAUd oddNo_ 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt	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
PRtY EVEN dAtA 8.bit 1.bit bus.F _LF_ StNd 485_ CMd_ SEPR	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	SP.Id NONE bAUd oddNo_ 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE	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
Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR _CR_	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	SP.Id NONE bAUd oddNo_ 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE	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
PRtY EVEN dAtA 8.bit 1.bit bus.F _LF_ StNd 485_ CMd_ SEPR	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	SP.Id NONE bAUd oddNo_ 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE	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
Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR _cR stAt	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	SP.Id NONE bAUd odd_ No_ 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG	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
Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR _CR_	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	SP.Id NONE bAUd oddNo_ 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE	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
Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR _CR _stAt PEAk	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	SP.Id NONE bAUd odd_ No_ 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS	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
Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR _cR _stAt PEAk UNit	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	SP.Id NONE bAUd odd_ No_ 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG	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
Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF StNd 485 CMd SEPR _cR _cR _stAt PEAk UNit tR.tM	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	SP.Id NONE bAUd odd No 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR	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 Multipoint Address
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	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	SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR	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 Multipoint Address
Id FULL COMM C.PAR PRtY EVEN dAtA 8.bit 1.bit bus.F LF_ StNd 485_ CMd_ SEPRCR stAt PEAk UNit tR.tM COLR 1.CLR	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 Display	SP.Id NONE bAUd oddNo 7.bit StOP 2.bit M.bus ECHO 232C ModE CoNt SPCE dAt.F RdNG GROS AddR N.CLR 2.CLR	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 Multipoint Address Normal Color Display Alarm 2 Color Display
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