Underline denotes factory default setup

essing menus by ₩ navigate through 2 showing

CHART

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VRx.x

DISPLAY ABBREVIATIONS

ALR1 Alarm 1 Status OFF Alarm 1 set Off ON Alarm 1 set On A1Md Alarm 1 Mode A1LO Alarm 1 Low A1HI Alarm 1 High LO-1 Alarm 1 Low -999 Alarm 1 Low Value9999 HI-1 Alarm 1 High -999 Alarm 1 High Value9999 A1CR Display color when Alarm 1 triggered GRN Green Color REd Red Color AMBR Amber Color ALR2 Alarm 2 Status OFF Alarm 2 Set Off ON Alarm 2 set On A2Md Alarm 2 Mode A2LO Alarm 2 Low A2HI Alarm 2 High A2LH Alarm 2 Low/High LO-2 Alarm 2 Low -999 Alarm 2 Low Value9999 HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered GRN Green Color AMBR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
A1Md Alarm 1 Mode A1LO Alarm 1 Low A1HI Alarm 1 High A1LH Alarm 1 Low/High LO-1 Alarm 1 Low -999 Alarm 1 Low Value9999 HI-1 Alarm 1 High -999 Alarm 1 High Value9999 A1CR Display color when Alarm 1 triggered GRN Green Color REd Red Color AMbR Amber Color ALR2 Alarm 2 Status OFF Alarm 2 Set Off ON Alarm 2 set On A2Md Alarm 2 Mode A2LO Alarm 2 Low A2HI Alarm 2 High A2LH Alarm 2 Low/High LO-2 Alarm 2 Low -999 Alarm 2 Low Value9999 HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
A1LO Alarm 1 Low A1HI Alarm 1 High A1LH Alarm 1 Low/High LO-1 Alarm 1 Low -999
A1LH Alarm 1 Low/High LO-1 Alarm 1 Low -999 Alarm 1 Low Value9999 HI-1 Alarm 1 High -999 Alarm 1 High Value9999 A1CR Display color when Alarm 1 triggered GRN Green Color REd Red Color AMbR Amber Color ALR2 Alarm 2 Status OFF Alarm 2 Set Off ON Alarm 2 set On A2Md Alarm 2 Mode A2LO Alarm 2 Low A2HI Alarm 2 High A2LH Alarm 2 Low/High LO-2 Alarm 2 Low -999 Alarm 2 Low Value9999 HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
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HI-1 Alarm 1 High -999 Alarm 1 High Value9999 A1CR Display color when Alarm 1 triggered GRN Green Color REd Red Color AMbR Amber Color ALR2 Alarm 2 Status OFF Alarm 2 set Off ON Alarm 2 set On A2Md Alarm 2 Mode A2LO Alarm 2 Low A2HI Alarm 2 High A2LH Alarm 2 Low/High LO-2 Alarm 2 Low -999 Alarm 2 Low Value9999 HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
HI-1 Alarm 1 High .999 Alarm 1 High Value .9999 A1CR Display color when Alarm 1 triggered Red Color REd Red Color AMbR Amber Color REd Red Color ALR2 Alarm 2 Status OFF Alarm 2 set Off ON Alarm 2 set On A2Md Alarm 2 Mode A2LO Alarm 2 Low A2HI Alarm 2 High A2LH Alarm 2 Low/High LO-2 Alarm 2 Low -999 Alarm 2 Low Value9999 HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered Red Color AMbR Amber Color REd Red Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
HI-1 Alarm 1 High .999 Alarm 1 High Value .9999 A1CR Display color when Alarm 1 triggered Red Color REd Red Color AMbR Amber Color REd Red Color ALR2 Alarm 2 Status OFF Alarm 2 set Off ON Alarm 2 set On A2Md Alarm 2 Mode A2LO Alarm 2 Low A2HI Alarm 2 High A2LH Alarm 2 Low/High LO-2 Alarm 2 Low -999 Alarm 2 Low Value9999 HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered Red Color AMbR Amber Color REd Red Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
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ALR2 Alarm 2 Status OFF Alarm 2 set Off ON Alarm 2 set On A2Md Alarm 2 Mode A2LO Alarm 2 Low A2HI Alarm 2 High A2LH Alarm 2 Low/High LO-2 Alarm 2 Low -999 Alarm 2 Low Value9999 HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
OFF Alarm 2 set Off ON Alarm 2 set On A2Md Alarm 2 Mode A2LO Alarm 2 Low A2HI Alarm 2 High A2LH Alarm 2 Low/High LO-2 Alarm 2 Low -999 Alarm 2 Low Value9999 HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
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A2LO Alarm 2 Low A2HI Alarm 2 High A2LH Alarm 2 Low/High LO-2 Alarm 2 Low -999 Alarm 2 Low Value9999 HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
A2LH Alarm 2 Low/High LO-2 Alarm 2 Low -999 Alarm 2 Low Value9999 HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
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HI-2 Alarm 2 High -999 Alarm 2 High Value9999 A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
HI-2 Alarm 2 High -999
A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
A2CR Display color when Alarm 2 triggered GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
GRN Green Color REd Red Color AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
AMbR Amber Color OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
OUt Alarm Latched/Unlatched selection LAtC Latched UNLA Unlatched NO.CR Display Color in Normal condition
NO.CR Display Color in Normal condition
NO.CR Display Color in Normal condition
NO.CR Display Color in Normal condition
GRN Green Color REd Red Color
AMbR Amber Color
MOdE Data Flow Mode
HOSt Host Mode SLAV Slave Mode
bAUd Baud Rate 300 Baud Rate Value
19200
FORM Data Format
701 7 Bit, Odd, 7E1 7 Bit, Even,
1 Stop Bit 1 Stop Bit
8N1 8 Bit, No parity,
1 Stop Bit
COMM Communication Standard
AddR Device Address 0000 Address Value
0099
INTE Interface Device
dRNt DRN with dRNP DRN with
Temperature Input Process Input
Miscellaneous:
PEAk Peak Value VALL Valley Value
PROC Process Value RUN Run Mode
OVLd Input Overload StOR Stored Message
Table Transport Total Total Moodage



- In Slave Mode the Big Display will wait for commands and data from the Serial Bus.
- 2. In Host Mode the Big Display will send data automatically and continuously into the Serial Bus.
- 3. When used in RS-485 Mode, the device must be accessed with an appropriate Address Value.
- 4. Latched Mode: Alarm remains latched until reset. To reset already latched alarm select any menu items and then press "up" or "down" button.

SPECIFICATION

Temperature Stability: 50 ppm/°C

Display:

4-digit, 7-segment LED, 101.6mm (4.00") with red, green and amber programmable colors.

Alarm:

Alarm 1 & 2 programmable, Latch/Unlatch, High, Low. High/Low

SERIAL INTERFACE

Communication Standard: RS-485, RS-422 or RS-232

Transfer speed (Baud rate): 300, 600, 1200, 2400, 4800, 9600,19200 bps

Data Format:

701-7 bit, Odd, 1 stop bit, 7E1- 7 bit, even, 1 stop bit 8N1 - 8 bit, No parity, 1 stop bit

Multi-Point Address (RS-485): 0 to 199

Flow Control:

No Flow control

Screw terminals for RS-232/485/422 interface

Power Supply:

100-240 Vac ±10%, 50/60 Hz, 22.5 W

Operating Temperature: 0 to 40°C

Storage Temperature:

Relative Humidity: 0 to 85%

Protection:

NEMA-4x (IP65)

Dimensions: 480.0 L x 210.8 W x 95.4 D mm (18.11" x 8.31" x 3.76")

Panel Cutout: 414.3 L x 179.4 W mm

(16.31" L x 7.06" W) Weight:

2,495 g (5.5 lbs)

Approvals: 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 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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OMEGA ENGINEERING, INC.

USA 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 is VOJU 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 VOJU 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.

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 REPRESSOR 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 purchase 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 Productles) 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 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.

FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

- 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 CZ/ SPAIN 2039150; 2048066/ UR Patent No. 682 249 837; GB2 248 954/ FRANCE BREVET NO. 91 12756. Other U.S. and International Patents pending or applied for.

OPERATION MANUAL

RoHS 2 Compliant





ISO 9001 Certified

Czech Republic:

France:

iLD44-C2 Big Remote Display with RS-232 Input



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M4192/0605

DESCRIPTION:

The iLD44 is a 4-digit master/slave display providing remote readout from instruments such as programmable controllers, digital panel meters and other instruments with serial output. Communication interfaces supported are RS-232 or RS-485 standards. Both RS-232 or RS-485 are programmable through front panel buttons.

The Big Display features a large three color programmable display with the capability to change color every time an Alarm is triggered.



Refer to the separate Signal Conditioner Manual for your specific Input details.

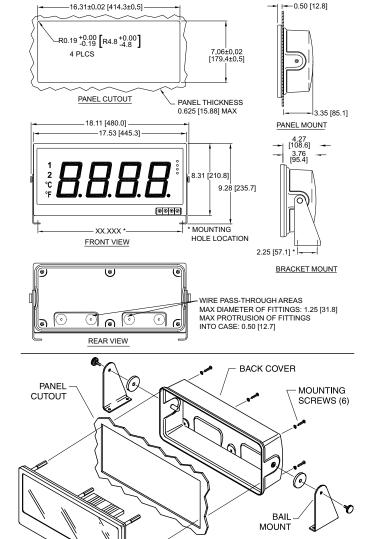
SAFETY:

• The instrument is a panel mount device protected in accordance with EN61010-1:2001.

EMC:

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

MOUNTING



Mounting Big Display Through Panel:

- COOP

FRONT-

1. Using the panel cutout diagram shown above, cut an opening in

NOTE: The display will be NEMA4 rated when

NEMA4 rated only from the front.

Bail Mounted and appropriate liquid proof

When Panel Mounted, the display will be

fittings are used, such as Heyco or Sealcon

- 2. Remove six screws at the back of Big Display to remove back
- 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. Align back cover to Big Display and reinstall screws.

-GASKET

Mounting Big Display on Bail:

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

Disassembly Instruction:



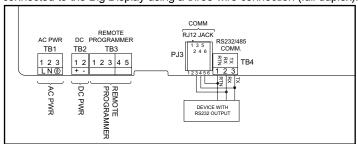
Warning: Disconnect all ac power from the unit before proceeding.

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

WIRING

1. Wiring RS-232 Interface.

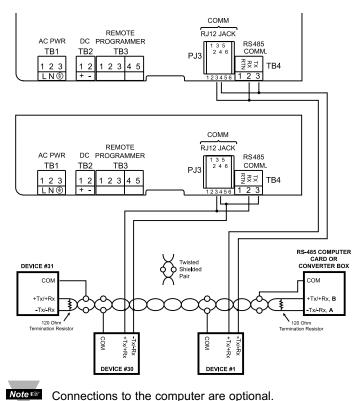
The RS-232 standard (point-to-point) allows a single device to be connected to the Big Display using a three-wire connection (full duplex).



Device with RS-232	Large Remote Display			
Pin Function	RJ-12	Screw Terminal		
Receive (Rx)	4 (Tx)	3 (Tx)		
Transmit (Tx)	3 (Rx)	2 (Rx)		
Common Ground (COM)	5	ì î		

2. Wiring RS-485 Interface.

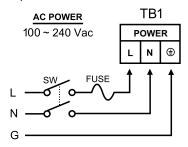
The RS-485 standard (multipoint) allows a computer, one or more devices and Big Displays (up to 32) to be connected using a twowire connection (half-duplex) plus a common wire to connect to the shield of the cable. It is recommended to use shielded cable with one twisted pair for EMI noise protection.



Computer Card or Converter Box	Device with RS-485 Pin	Remote Display		
Pin Function	Function	RJ-12	Screw Terminal	
A, -Tx/-Rx	-Tx/-Rx	4	3	
B, +Tx/+Rx	+Tx/+Rx	3	2	
COM	СОМ		1	

3. Power Connection.

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



OPERATIONS

1. Peak Value (Display in Host Mode)

Press o to request "Peak" value:

a) RS-232 Mode, will send:

*X02 (Interface DRNT), or *X03 (Interface DRNP)

b) RS-485 Mode, will send:

*01X02 (Interface DRNT), or *01X03 (Interface DRNP)



In the examples for RS-485 it is assumed that the device address is 01.

2. Valley Value (Display on Host Mode)

Press to request "Valley" value.

a) RS-232 Mode, will send:

*X03 (Interface DRNT), or *X04 (Interface DRNP)

b) RS-485 Mode, will send:

*01X03 (Interface DRNT), or *01X04 (Interface DRNP)

3. Process Value (Display on Host Mode)

Press • to request "Process" Value.

a) RS-232 Mode, will send: *X01 b) RS-485 Mode, will send: *01X01

4. Write alphanumeric characters to the Big Display from the computer (Display in Slave Mode)

a) Single Big Display: (R\$232) write 4 characters, then CR (carriage return)

b) Multiple Big Display: (RS485) write *, device address (2 digit), CR, 4 characters, then CR

5. Display Color Setup (Alarm Setup)

This menu allows the user to select the color of the display in normal conditions and when alarm is triggered. If user wants the Display to change color every time when both Alarm 1 and Alarm 2 are triggered, the Alarm values should be set in such a way that Alarm 1 is always on the top of Alarm 2 value, otherwise value of the Alarm 1 will overwrite value of Alarm 2 and Display color would not change when Alarm 2 is triggered.

Example 1:

"ON", Alarm Mode High "A1HI", Alarm High Alarm 1 setup: Value "HI-1"=400, Alarm Color "A1CR"=Amber Alarm 2 setup: "ON", Alarm Mode High "A2HI", Alarm High Value "HI-2"=200. Alarm Color "A2CR"=Red Normal Color: "NO.CR"=Green

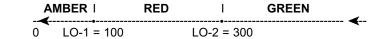
Display colors change sequences:

	GREEN	1	RED	I	AMBER
0		2 = 200		HI-1 = 40	_

Example 2:

"ON", Alarm Mode Low "A1LO", Alarm Low Alarm 1 setup: Value "LO-1"=100, Alarm Color "A1CR"=Amber "ON", Alarm Mode LO "A2LO", Alarm High Alarm 2 setup: Value "LO-2"=300, Alarm Color "A2CR"=Red Normal Color: "NO.CR"=Green

Display colors change sequences:



Example 3:

Alarm 1 setup: "ON", Alarm Mode Low/High "A Value "LO-1"=100, Alarm High Value "HI-1"=250, "ON", Alarm Mode Low/High "A1LH", Alarm Low

Alarm Color "A1CR"=Amber

Alarm 2 setup: "ON", Alarm Mode Low/High "A2LH", Alarm Low Value "LO-2"=150, Alarm High value "HI-2"=200,

Alarm Color "A2CR"=Red

"NO.CR"=Green Normal Color:

Display colors change sequences:

Α	MBER	RED	I GR	REEN	RED	AMB	ER
•>	·		•			•	· >
0	LO-1 = 1	100 LC	-2 = 150	HI-2 =	200 H	H-2 = 250	

CONFIGURATION

Button Functions in Configuration Mode

Datton	anotions in Comigaration Mode
	 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
(MENU)	menus by pressing ② .
	 While a parameter is being modified, press o to
	escape without saving the parameter.
	 Press the up button to scroll through submenu selections. When a numerical value is displayed press this key to increase value of a parameter that is
_	currently being modified.
0	 In the Run Mode pressing a causes the display
(UP)	to flash the PEAK value several times before returning to the Run Mode.
	 In the top menu press causes the display to return to the Run Mode.
_	 Press the down button to scroll through submenu selections. When a numerical value is displayed press this key to decrease value of a parameter that is currently being modified.
(DOWN)	 In the Run Mode press
(DOWN)	the Valley value several times before returning to the Run Mode.
	 In the top menu press causes the display to return to the Run Mode.
	Press this button to access the submenus from a Top Level Menu item.
(ENTER)	Press this button to store a submenu selection or after
(ENTER)	entering a value – the display will flash a 5 t 0 R



Note x, w, z, and some punctuations are non-printable characters.

entering a value - the display will flash a 5 t 0 R

message to confirm your selection.