ONEhalf20
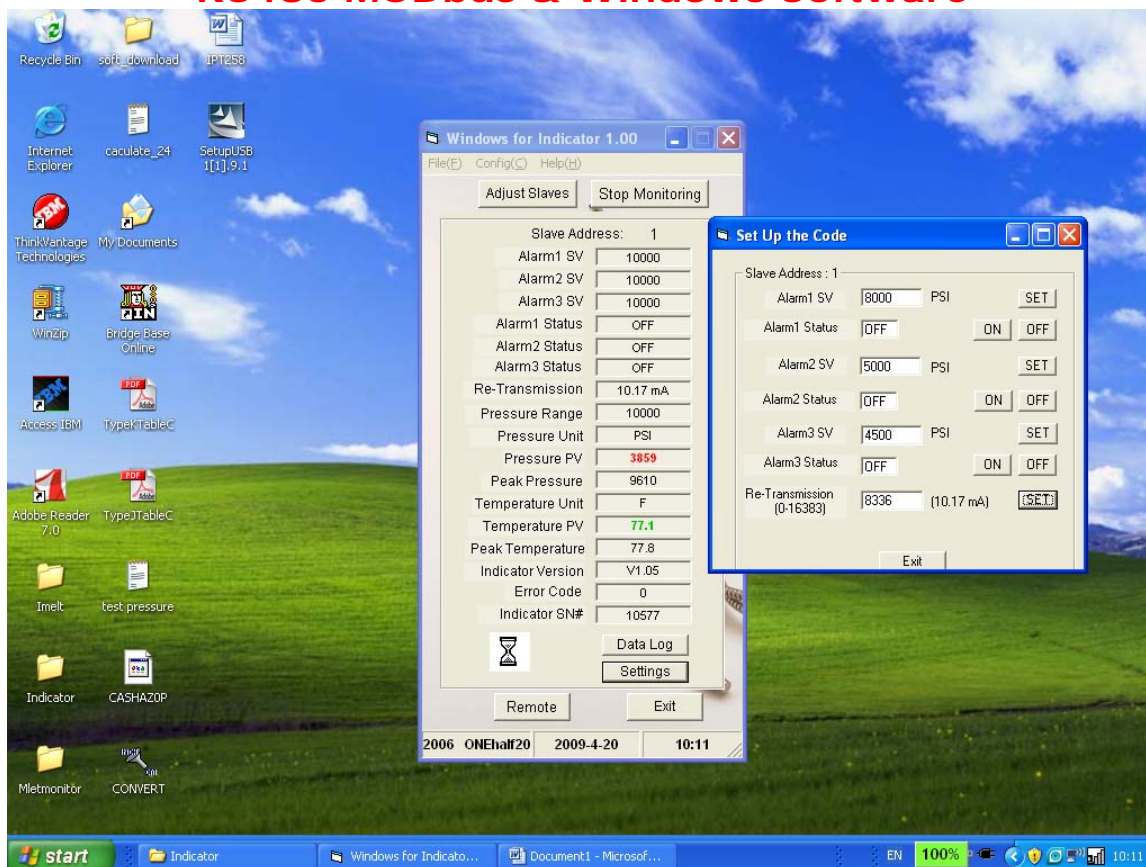
258 Series Addendum # 1
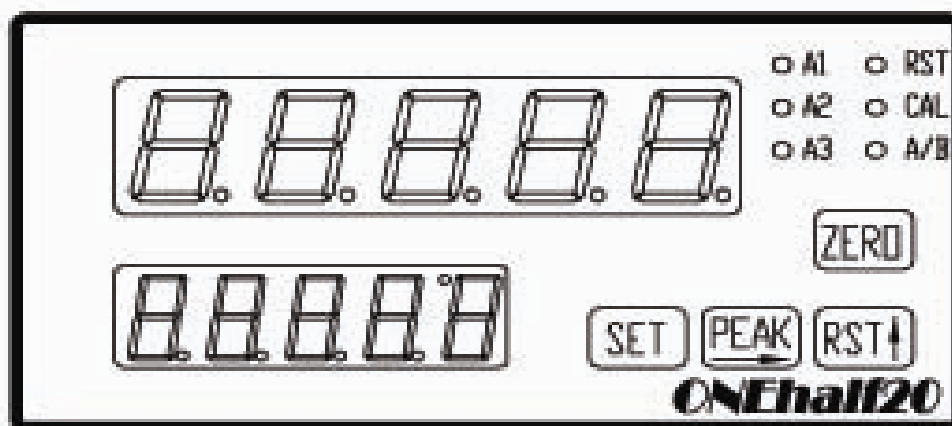## RS485 MODbus & Windows Software

NOTE: Most modern computers are equipped with USB ports rather than RS485. In order to connect to a computer a USB/RS485 converter is recommended. ONEhalf20 offers a converter model USB/RS485-COMM1.

Configuration Menu - MODbus Settings

To enter the Configuration Menu refer to the 258 Series Operating Manual.

Code	Configuration (Default)
	Settings & definition
U71	**MODBus slave address** (Default 1)
	Adjustable from 1-99
U72	**MODBus baud rate** (Default 3=9,600bps)
	0=1,200 bps
	1=2,400 bps
	2=4,800 bps
	3=9,600 bps
	4=19,200 bps
	5=38,400 bps
U73	**MODBus parity check** (Default 0=non)
	0=non
	1=odd
	2=even

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258 Series Front Panel Layout

Front Panel Buttons

Zero   sets the pressure value at zero or resets the peak values while flashing.
Peak   display flashes with the pressure and temperature peak values.
RST   manually resets the alarms.
Set   enters and exits the menus.

Beacon's/LED's

AL1   Alarm 1 (flashing in early warning range)
AL2   Alarm 2 (flashing in early warning range)
AL3   Alarm 3 (flashing in early warning range)
RST   Remote alarm reset
CAL   Shunt calibration signal
A/B   indicates MODBus communications when flashing

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258 Communications Wiring

NOTE: An RS485 terminal resistor is offered as a default within the 258 indicator. If you are communicating with more than (1) indicator you must reset the terminal resistor jumper on the power board inside the 258 indicator on all but the last one.

RS485 -B	RS485 +A						VAC 100/240	LN	Ground ⏚
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

MODbus-RTU Protocol

Read/Write Content & Address (Hex Format)

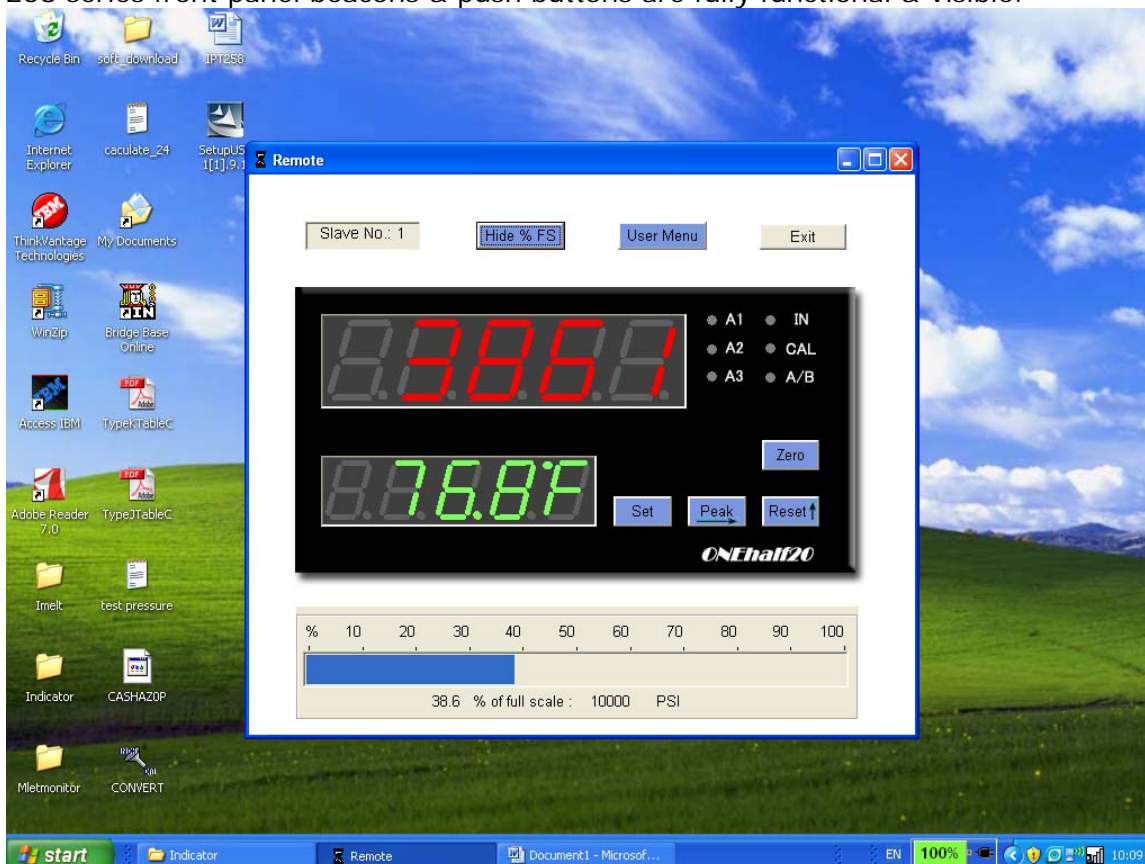|	
Alarm 1 Set point (U12)	OXO200
Alarm 2 Set point (U22)	OXO201
Alarm 3 Set point (U32)	OXO202
Alarm 1 Status On/Off **U11** set as 9=CON alarm controlled through RS485 communications	OXO203
Alarm 2 Status On/Off **U21** set as 9=CON alarm controlled through RS485 communications	OXO204
Alarm 3 Status On/Off **U31** set as 9=CON alarm controlled through RS485 communications	OXO205
Retransmission Value **U64** set as 1=the output controlled via RS485 communications. Value ranges from 0-16383 corresponding to 0-20mA.	OXO206

Read Only Content & Address (Hex Format)

Full Scale Value FSV (U43)	OXO207
Pressure Unit (U41)	OXO208
Current Process Pressure Value	OXO209
Peak Pressure	OXO20A
Temperature Unit (U46)	OXO20B
Current Process Temperature Value	OXO20C
Peak Temperature	OXO20D
Software Version (U94)	OXO20E
Error Codes (U96)	OXO20F
Serial Number	OXO210

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ONEhalf20 Windows Based Software

ONEhalf20's Windows based software can also be used with the RS485 Communications Option. This proprietary software allows the user to program and set all of the configuration features of the 258 Series indicators without the need to use the (4) front panel buttons.

The software can also be used for data logging functions as well as remote real time monitoring of process Melt Pressure and Temperature Values. In addition all of the 258 series front panel beacons & push buttons are fully functional & visible.

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Frequently Asked Question's

1. Why am I getting a run time error with my Windows software?

It is likely that your version of Windows is missing critical files. You will need to install (2) files MSCOMCTL.OCX & MSCOMM32.OCX into your windows//system32. You can obtain these files by contacting www.microsoft.com or ONEhalf20.

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