

IPM500/IBT500 QUICK START

FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

FRONT



Menu Button
Is used to scroll through setting options and to save individual settings.



Peak Button
Is used to select the displayed menu item. Pressing the **Peak** function on a menu item will enable the user to change the items setting.



Reset Button
Is used to reset all display functions. Selecting the **Reset** function can change the numerical value of the flashing digits selected by the **Peak** function.

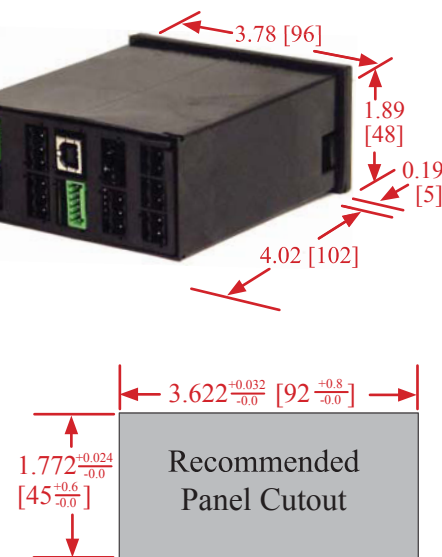


Alarms Button
Allows the user to scroll backwards through the menu options.

Panel Securing Screws

LED Alarm 1

LED Alarm 2



SPEC.

STANDARD FEATURES:

Up to 60 Conversions per second
Scaleable to 5 digits. $\pm 99,999$
Worldwide input power: 85 to 264 VAC and 90 to 370 VDC (Green or Blue Connector)

Isolated selectable excitation to power sensors.

5VDC@200 mA, *10 VDC@120 mA

Peak hold and remote auto tare

Plug-in screw terminal

Weight 9 oz [0.25 Kg]

*10 VDC@120 mA is optional

ENVIRONMENT:

OPERATING TEMP. 32°F to 130°F [0°C to 55°C]

STORAGE TEMP. -100°F to 180°F [-73°C to 82°C]

RELATIVE HUMIDITY 95% AT 100°F [38°C]

OPTIONS:

* Analog Output

* Alarm/Relay

* RS232 / USB & TEDS

* RS485

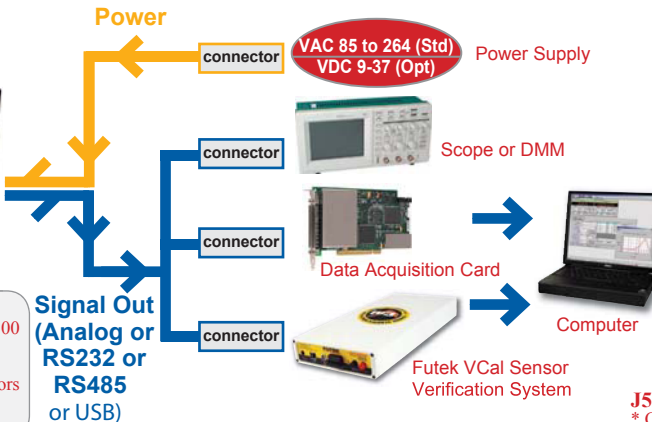
* DC option (9-37 VDC)(Black or Brown Connector)

* RS232 / USB Software Available

SYSTEM



TEDS (IEEE 1451.4):
* TEDS option available for Futek IPM500 display, IBT500 display, VCal™ System and all sensors.
* Futek also upgrades your existing sensors with TEDS option.
* Call 1-800-23-FUTEK for details



IPM500 Also Available In Bench Top Version (IBT500)



J5 Note:

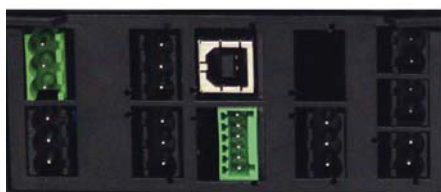
* Color code shown below is per Futek standard wiring.

* Check your sensor color code per Futek spec drawing sheet.

Follow your sensor color code if it differs from the code below.

BACK

J1 J2 J3 J4 J5



J1	
Black	1 AC HI (+DC HI)
White	2 AC LO (DC RET)
Green	3 EARTH GROUND
	4 DIGITAL INPUT B
	5 DIGITAL INPUT A
Tare Switch	6 DIGITAL GROUND

Power/Input Connections

J2	
Alarm Indicator	1
	2 Alarm1 - N/O Contact
	3 Alarm1 - Common
	4 Alarm1 - N/C Contact
Power Supply *	5 Alarm2 - N/O Contact
	6 Alarm2 - Common
	7 Alarm2 - N/C Contact

Alarm Output Connection

J3	
USB or RS232 or RS485 or TEDS	

J4	
1	0-20mA Output
2	0-10VDC Output
3	Isolated Ground

Analog Output

J5*	
- Excitation	1 Black
- Sense	2 Jumper
- Signal	3 White
+ Signal	4 Gry/Ylw
+ Excitation	5 Red
+ Sense	6 Jumper

Sensor Connections, 4-Wire

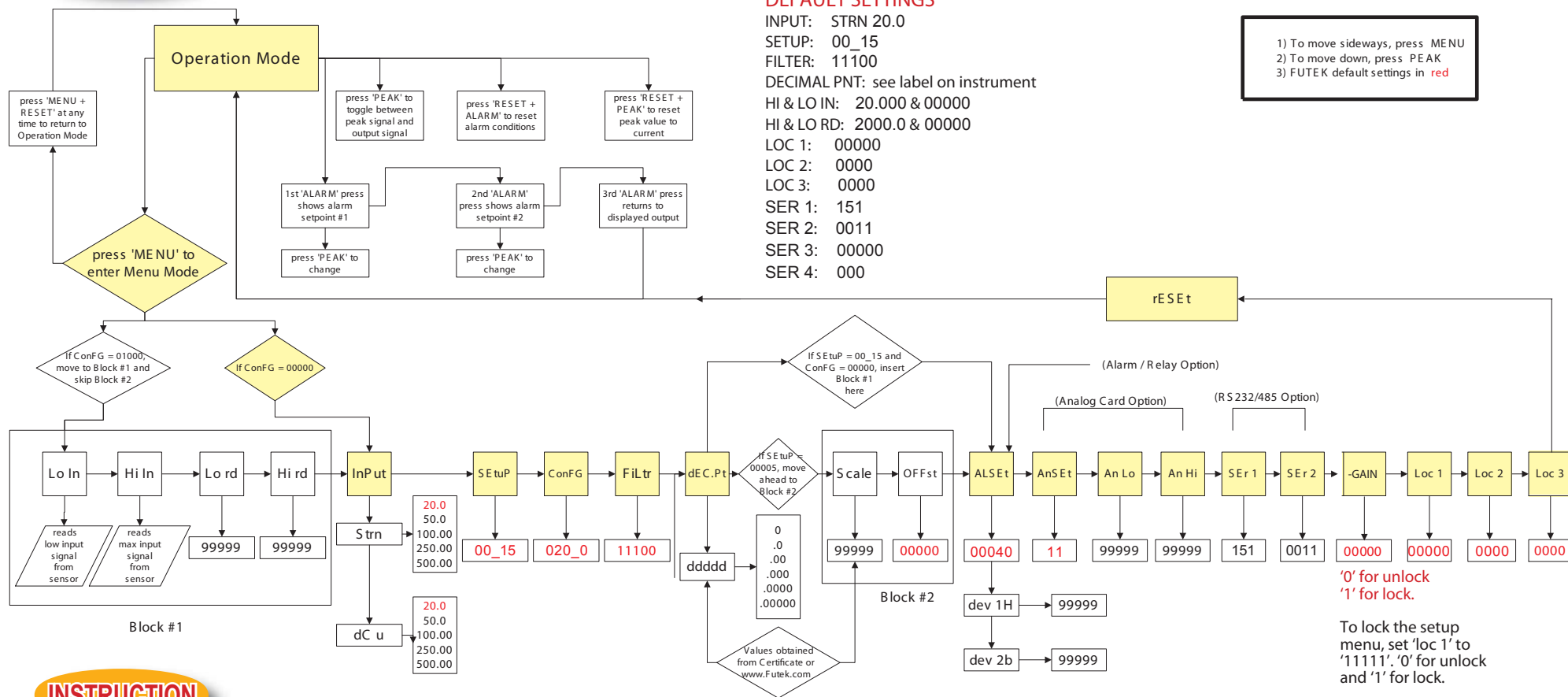
J5*	
- Excitation	1 Black
- Sense	2 Blue
- Signal	3 White
+ Signal	4 Gry/Ylw
+ Excitation	5 Red
+ Sense	6 Orange

Sensor Connections, 6-Wire

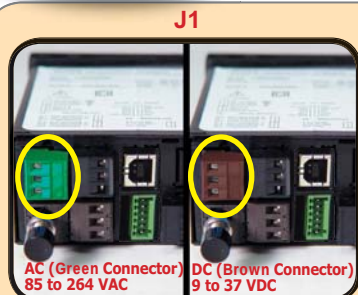
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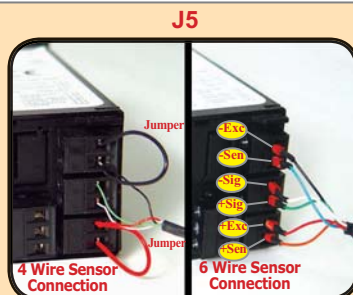
FLOW CHART



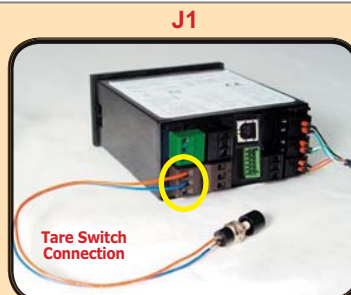
INSTRUCTION



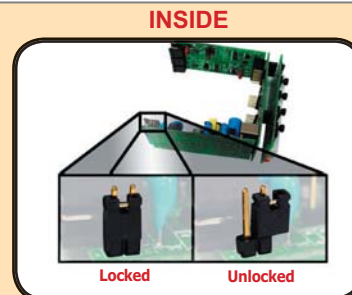
The GREEN/BLUE power connector is for AC and the BLACK/BROWN is for DC.



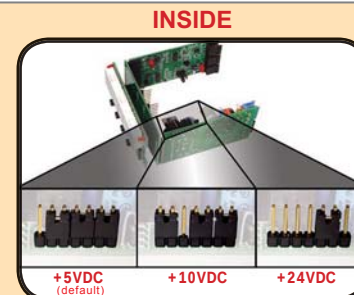
The display can be connected to sensors with 6 wires or 4 wires.



You may remove the tare switch (included in std. package) from the back and mount it on your front panel.



Setting hardware lock out jumper.



Changing the location of the jumpers will change the excitation voltage.