



## WIRELESS ALARM MONITORING AND CONTROL

**A NEW WAY** to monitor a  
remote location.  
**"Text message"** your cell phone  
when knowing is important.

4 Digital Inputs  
2 Analog Inputs (0-10 vdc or 4-20 mA)  
4 Digital Outputs (Relays, Form C 7 Amp 240 Volt)

### ALARM MONITORING and CONTROL

The Tbox System is a process or alarm module that transmits text information from a remote location to your cell phone. The modules accept four digital (contact closure) and two analog (0-10 vdc or 4-20 mA) inputs. If the condition of these inputs change, it sends you a text message. You determine the message. A SMS "text message" (Short Message Service) must be 160 characters or less. You can even have it "text" some one for certain conditions, or some one else for other conditions. You can set limits on the analog inputs. An example, if the pressure exceed a value, it will text your cell phone. Each module has its own phone card called a SIM card. This card and Service is offered by an international network provider (MVNO) which means the Tbox can text message you down the street, or anywhere in the world. The only requirement is that cell phone reception is possible.

### DIGITAL INPUTS

The Tbox accepts four digital inputs. This is a contact closure with no voltage potential present. It can be an alarm contact from a temperature control, a proximity sensor or from a pressure switch. This input can be alone or may require that other events take place to trigger the alarm, such as a contact closure during non-business hours. Once you determine the text you want to receive, simply enter the message as "low oil pressure, Pump # 1". Then determine if you want any relay output as a result of the fault condition. Then determine who should be receive the text message.

### ANALOG OR PROCESS INPUTS

The Tbox has 2 analog inputs that may be 0-10 vdc or 4-20 mA. Analog inputs can be provided by inexpensive thermistors, retransmit outputs from temperature controls or current transmitters. Through software, these can be labeled as to the name of the equipment monitored and the process sensed. It can also have specific levels defined that will text an alarm, when the process exceeds or falls below this value. Relay outputs can be selected to transfer when the process values you choose is exceeded.



### PERSONAL COMPUTER

A Personal Computer (PC) is used to set up each Tbox using the RS-232/ RJ45 cable. The labels for the equipment, what the Module is monitoring, the specific fault or process and any action you want to give to that input are all entered easily in the set up. For Process inputs, the Analog (0-10 vdc or 4-20mA) input is easy to establish alarm set points. Once you have determined the alarm conditions, the logic and the action, then remove it from the computer and wire it to your equipment. It's all set to give you a call.



### ENCLOSURE

An optional NEMA 4 Enclosure (with DIN mounting rail) and a power supply is available. The cover is transparent so the LED indicators are visible. The Tbox comes with RS-232 programming cable, an antenna having 2.5 meters of cable and a programming CD to enter cell phone numbers and messages.

# Technical Data



## Tbox P/N Tbox

Power.....24 VDC (300 mA)  
 Wireless Modem: Quad Band GSM (850/900/1800/1900 MHz)  
 4 Digital Inputs: 0-2 Volts False.(Open); 2-24 Volts True (Closed)  
 2 Analog Inputs: 0-10 VDC or 4-20 mA  
 4 Relay Outputs: Form C (SPDT) 7 Amps at 240 Volts AC  
 Operating Temperature: -4F to +130F (-20C to +55C)  
 Dimensions: 2.75" Wide x 3.5 High x 2.75 Deep  
 Antenna, Magnetic Mount, 2.5 Meters Cable  
 DIN Rail Mount

## Power Supply P/N PS-1

DC Voltage.....24 VDC  
 Rated Current: ..... 1 Amp  
 Rated Power: .....24 Watts  
 Ripple and Noise: .....150 mVp-p  
 Input Voltage Range: .....85-264VAC  
 Operating Temperature: -4F to +130F (-20C to +55C)  
 Dimensions: ..... .88" Wide x 3.5 High x 3.95 Deep  
 DIN Rail Mount

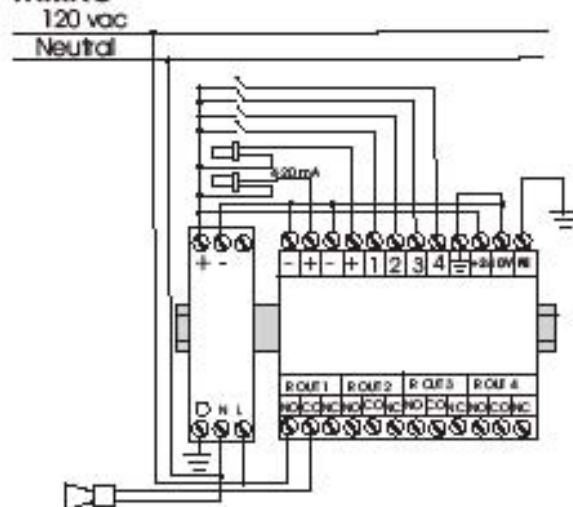
## Enclosure P/N Enc-1

Material.....Polycarbonate  
 NEMA Rated : .....1, 2, 4, 4X, 6, 12 & 13  
 Included: .....DIN Rail  
 Cover: .....Smoked Transparent  
 Dimensions: ..... 7.1" Wide x 7.1 High x 4.95 Deep

## Thermistor P/N TH-1

Output : .....4-20 mA  
 Power Supply.....24 VDC  
 Mounting .....Hole for # 8 Stud  
 Dimensions: ..... 24" leads .645 x .310 Body  
 Range: .....4 mA=-10 C, 20 mA =+110 C  
 Note:..... This is Non-linearized with a  
 look-up table for temperature vs mA..

## WIRING



**DIGITAL INPUTS** Contact closure from input to ground  
**ANALOG INPUTS** 10 vdc. Or 4-20 mA. Observe Polarity.  
**RELAY OUTPUT** 7 Amps at 240 volts



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Tbox comes with Antenna, CD and Programming Cable

**DISTRIBUTED BY:**

