

WIRELESS ALARM MONITORING AND CONTROL

A NEW WAY to monitor a remote location - GPRS/GSM. "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

Initially, a Personal Computer (PC) can be 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

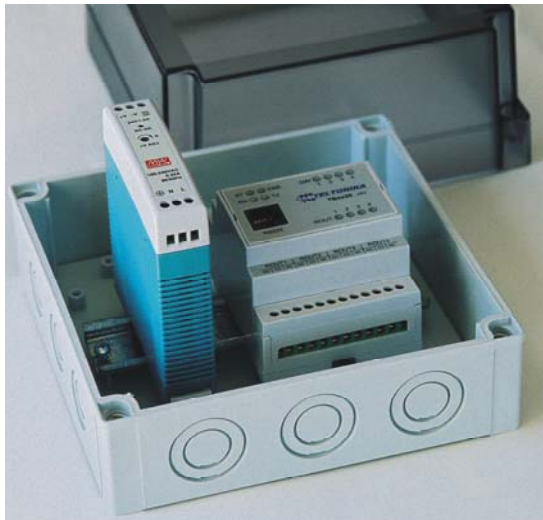


Optional NEMA 4 Enclosure and Power Supply

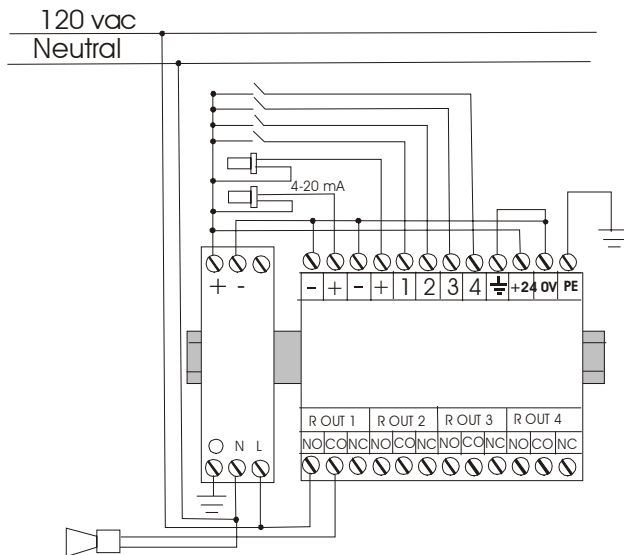
GSM/ GPRS

The Tbox can also be programmed through the GSM/ GPRS Network. The General Packet Radio Service (GPRS) is a packet oriented Mobile Data Service available to users of Global Systems for Mobile Communications. This means that even though the Tbox is thousands of miles away, you can still program it changing settings and communicate with it. You can also send it a text message to open or close a relay output.

Technical Data



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



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
 GSM:
 GPRS Class 10: 16-24 Kbps upload, 32-48 Kbps download
 SMS: Text Mode

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
 MountingHole 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..



Tbox comes with Antenna, CD and Programming Cable

DISTRIBUTED BY:

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