

Highlights

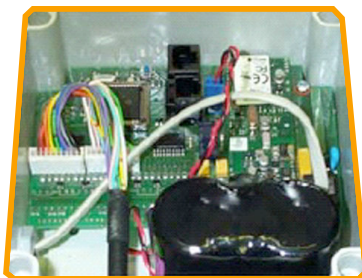
- Monitors 12 digital inputs (expandable to 24)
- Built in GSM (mobile phone) modem
- Forwards alarms to PC based Messenger Host Terminal Work Station and/or mobile phones
- Makes programmable routine health check test calls
- Fully reprogrammable over the GSM airwaves and locally
- Simple to install, no maintenance
- Self contained lithium battery, no need to recharge, 10 year life Main and standby contact numbers
- Automatically disable "fluttering" inputs
- Wall mounting IP65 polycarbonate casing
- (UL94) - other options available on request
- Test Button

The **CXR-Anderson Jacobson F63-PSTN Messenger™** is a PSTN (Public Switched Telephone Network) Messenger developed to allow deployment of Messenger products where GSM coverage is unavailable or signal strength is poor; however fixed telephone landlines are available. Typical siting would be the basement of a building or for monitoring equipment in sparsely populated areas where existing landlines are the only means of communication. The PSTN Messenger offers the same functionality as the F61 Messenger.

Application

PSTN Messenger has a built in fixed line modem and 10 year life, lithium battery. Up to 12 Digital inputs can be monitored.

In the event of an input being triggered the unit initiates a data call to the PC based Messenger Host Terminal PC. The telephone number of the Host Terminal is preprogrammed into the Messenger and can be edited over air at a later time without the need for an on-site visit. The Host terminal can accept real-time information from any combination of Messenger unit types, providing a total monitoring solution regardless of equipment location.



F63 Messenger Inside View

The PSTN Messenger can communicate with the host software through an internal telephone system for equipment monitoring at, for example, a large industrial complex

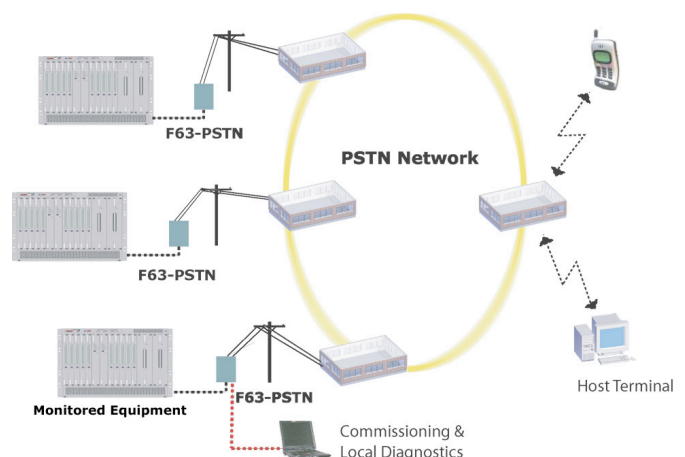


where use of the GSM Network would incur an unnecessary cost. Alarm and Reset messages forwarded to Host Terminal/mobile phone(s) include the following information:

- Type, serial number and details of equipment being monitored
- Date/Time alarm event occurred
- Type of alarm (alarm/reset)

If for any reason an alarm call fails Messenger has a retry algorithm to ensure message delivery. The Messenger Host Terminal application alerts users to alarms and can display the status of related Messenger unit's, alarm and contact histories. Field staff can be notified automatically by an SMS text message or e-mail initiated by the Messenger Host in the event of alarm conditions.

During contact with the Host Terminal the Messenger unit recalibrates its real-time clock and updates any operational settings that users may have edited.



Anderson Jacobson F63-PSTN Messenger

Specifications

COMMUNICATIONS

- Standard Modem V.22bis Dial Modem
PSTN socket modem connection through RJ-11 connector. Global PSTN approvals

INPUTS

- Inputs can be wired as either:
 - 12 x opto isolated inputs or 24 x direct connections
- Type
 - Normally Open/Closed (NO/NC) is software selectable
 - Flutter suppression on individual inputs is software selectable, reset programming in 1 - 255 seconds
- Minimum time to detect input operation
 - 500 ms (debounce)
- Opto Isolated Inputs
 - 5Kv isolation across the inputs, 24V nominal (80V Breakdown voltage between Live and Common)
- Directly connected inputs
 - Non-isolated, switched to zero volts.
- Input terminals
 - High Density Connector. Maximum conductor size 24 awg
- On board Events Log
 - 100 (expandable if required)
- On board Comms Log
 - 100 (expandable if required)

POWER SUPPLY

- External Supply
 - Not required
- Material
 - 36Ah, Double 'D' Lithium (Pulses Plus™)
- Current Consumption
 - Quiescent: 10 micro Amps (nominal)
 - TX/RX: 200mA to 600mA at 3.6 VDC

ENCLOSURE

- Rating
 - IP68 with Grotex™ vent
- Material
 - Non Flammable Polycarbonate, color RAL 7035 (light grey)
- Dimensions
 - 5.12 in x 5.12 in x 3.50 in (H x W x D)

ENCLOSURE (CONTINUED)

- Mounting
 - wall mounting
 - .16 (4) x M4 (.20 in [5mm] diameter) holes. Holes located outside watertight seal. Holes at 4.53 in (115mm) vertical & horizontal centers
- Standard Cable entry
 - IP68 cable
 - .04 x .79 in (1 x 20mm) hole fitted with entry gland. Gland accepts cable diameters in range .16 to .28 in (4 to 7mm)

GENERAL

- Approx. Weight
 - 1.55 lbs. (0.7Kg) including modem and stub antenna
- Temperature
 - 4° F to 131° F (-20° C to +55° C)
 - [GSM Modem]**
 - 49° F to 140° F (-45° C to +60° C)
 - [Messenger unit]**
- Retry Algorithm (in case of failed calls/busy Host)
 - 10 retries at approximately 1 minute intervals, per mobile
- Health Check Test Call Frequency
 - 1 to 99 days with option to disable

Features	Models				
	F62 Messenger	F62 Messenger	F62-GPS Messenger	F63-PSTN Messenger	F63-PSTN Messenger
Digital Inputs x 8		✓		✓	
Digital Inputs x 12	✓		✓		✓
Meter Pulse Counting Inputs x 8		✓		✓	
Expansion to 24 Inputs	✓	✓	✓	✓	✓
External AC or DC Power inputs		✓		✓	
Battery Backup (lead acid)		✓		✓	
Self Powered (through Lithium battery)	✓		✓		✓
Reports to Host software (see separate datasheet)	✓	✓	✓		✓
Sends SMS alarms directly to mobile phone(s)				✓	
GPS Receiver			✓		
Operates with Data enabled SIM card	✓	✓	✓	✓	
Operates with "Pay as you Go" SIM card				✓	
Operates with fixed PSTN landline					✓
Additional Expansion Ports		✓		✓	
Automatic AC/DC & Battery Power Monitoring		✓		✓	

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