

Highlights

- Counts pulses on 8 inputs
- Monitors 8 voltage-free digital inputs
- Built in GSM (mobile phone) modem
- Forwards alarms to PC based Messenger Host Terminal and mobile phones
- Makes weekly routine health check test calls
- Fully reprogrammable over air and locally
- Simple to install, no maintenance
- AC powered with rechargeable lead acid battery
- Can be polled by host at any time
- Main and standby contact numbers for host
- Wall mounting IP66 polycarbonate enclosure
- Diagnostic/Monitor Port

The **CXR-Anderson Jacobson F62-GPS Messenger™** combines the functions of Alarm monitoring and Position Tracking. Ideal for tracking mobile equipment or valuable assets at risk from theft. Adding the GPS (Global Positioning Satellite) feature to a Messenger - F62 means that the equipment being monitored by the Messenger can be located to within approximately 32.81 feet (10 meters). The GPS Messenger has an integral lithium power supply giving up to 10 years of standalone operation, stolen or misplaced equipment can be located even when the local power supply has failed.

Application

Messenger is triggered to contact the Host PC by one of the following events:

- Mains failure/reset
- Battery/regulator fault
- Digital Input change of status (NO to NC or NC to NO)
- Date/Time has arrived for next routine test call to Host



**F62-GPS Messenger
Inside View**

Once triggered, the Messenger will dial the pre-programmed telephone number and enter a two-way exchange of data with the Host Terminal.

Because all information from Messenger units is formatted and sent using data

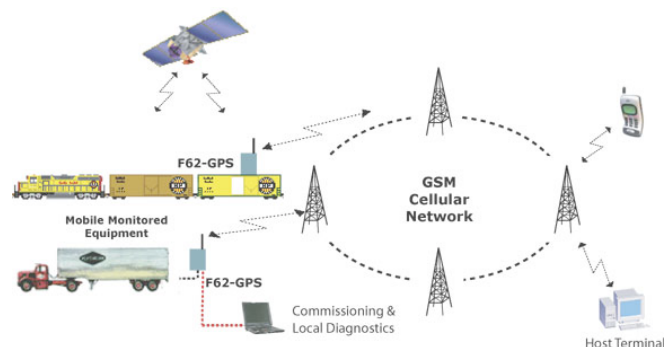


technology over the GSM network, installation is simple and provides excellent communications coverage. The PC based Messenger Host terminal can be used as a site editing suite. Alarm and reset messages forwarded to Host Terminal/mobile phone(s) include the following information:

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

Counter values on all 8 of the pulse counting inputs are passed to the Host Terminal during every contact.

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 from 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. If for any reason an alarm call fails, Messenger has a retry algorithm to ensure message delivery.



Anderson Jacobson F62-GPS Messenger

Specifications

COMMUNICATIONS

- Standard Modem GSM 900/1800 (dual band) integrated modem. Requires a data enabled SIM card. Optional 900/1900 dual band
- Antenna On board stub antenna. Can be replaced by external antenna and lead

INPUTS

- Inputs can be wired as either:
 - 24 direct connections
- Type Normally Open/Closed (NO/NC) is software selectable
 - Flutter suppression on individual inputs is software selectable if required
- Minimum time to detect input operation 10 ms (debounce)
- Counter Inputs 1 - 8 are configured as pulse counter inputs (5 to 50 V)
- Directly connected inputs Non-isolated, switched to zero volts
- Input terminals High Density Connector. Maximum conductor size 24 awg. Two part screw terminal connectors wire size .006-.06 in² (0.14-1.5mm²)
- On board Events Log 100 (expandable if required)
- On board Comms Log 100 (expandable if required)

POWER SUPPLY

- External Supply 115/230 VAC, switchable selectable, 1A fused nominal power 100m Watts
- Battery specification 2.5Ah, 4V, Double 'D' "Cyclon" sealed lead acid (3.1 in x 2.7 in x 1.7 in [W x H x D])
- Current Consumption Quiescent: 1 micro Amps (nominal) TX/RX: 200mA to 600mA at 4 VDC. Max. charge 800mA. Current limited by mains PTC and DC regulator

ENCLOSURE

- Rating IP68 with vent to IPX4
- Material Non Flammable Polycarbonate, color RAL 7035 (light grey)
- Dimensions 7.16 in x 7.08 in x 3.55 in (H x W x D)
- Mounting .16 in (4) x M4 (.20 in [5mm diameter]) wall mounting holes. Holes located outside watertight seal. Holes at 4.53 in (115mm) vertical & horizontal centers
- Standard Cable entry .04 x .79 in (1 x 20mm) hole fitted with IP68 cable entry gland. Gland accepts cable diameters in range .20 to .39 in (5 to 10mm)
 - Inputs: 1 x M25 hole fitted into IP68 cable entry gland accepts cable diameters in range of .24 to .51 in (6 to 13mm)

GENERAL

- Approx. Weight 2.20 lbs. 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, followed by a 24 hour wait and then starts call attempts again
- Health Check Test Call Frequency 1 to 99 days with option to disable

APPROVALS

- Independently approved
- EN61010-1:2001
 - EN60068-2-1
 - EN60068-2-2
 - EN60068-2-3
 - EN61326:1997

Features	Models				
	F62 Messenger	F62 Messenger	F62-GPS Messenger	F62-SMS 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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