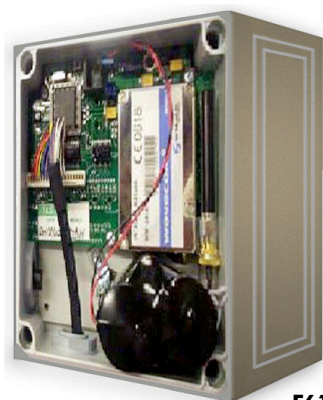


### Highlights

- 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 direct connect
- Simple to install, no maintenance
- Self contained lithium battery, no need to recharge, 10 year life Main and standby contact numbers
- Automatically disables "fluttering" inputs
- Wall mounting IP65 polycarbonate casing
- (UL94) - other options available on request
- Test Button

The **CXR-Anderson Jacobson F61 Messenger™** is completely self-contained with a built in GSM modem (mobile phone) and 10 year life lithium battery. The battery is sized in order to allow a Weekly test call to be made which confirms operational readiness. Messenger is triggered by the operation or reset of the equipment's alarm contacts being monitored. Messenger then initiates a data call to the PC based Messenger Host Terminal PC.

The telephone number of the Host Terminal is pre-programmed into the Messenger and can be edited over the air at a later stage without the need for a site visit. Because alarm and reset messages from Messenger units are formatted and sent using data technology over the GSM network, installation is simple and provides excellent communications coverage. The PC based Messenger Host Terminal Work Station 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)

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

F61 Messenger Inside View

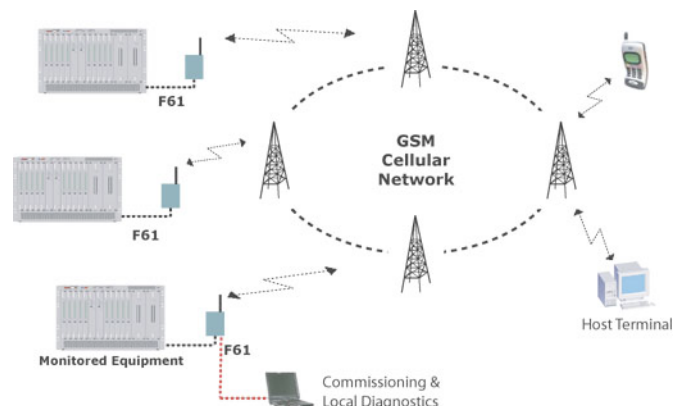


The **Messenger Host Terminal** application alerts users to alarms and can display the status of related Messenger unit's, alarm and contact histories. Field staff can be notified automatically by an SMS text message or e-mail from the Messenger Host in the event of alarm conditions.

When connected to 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.

### Application

Any equipment with digital output contacts can now be monitored from remote locations when connected to the Messenger family of products. Messenger monitors up to 12 normally open or normally closed contacts and reports alarm and reset conditions to a remote PC and/or mobile phones by using the GSM (mobile phone) network. Messenger is self-contained and requires no external power source.



# Anderson Jacobson F61 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:
  - 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 if required
- 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. Two part screw terminal connectors wire size .006-.06 in<sup>2</sup> (0.14-1.5mm<sup>2</sup>)
- On board Events Log 100 (expandable if required)
- On board Comms Log 100 (expandable if required)

### POWER SUPPLY

- Battery specification 36Ah Double 'D' Lithium (Pulses Plus™) 3.31 in x 2.36 in x 1.42 in (W x H x D)
- Current Consumption Quiescent: 10 micro Amps (nominal) TX/RX: 200mA to 600mA at 3.6 VDC. Max. charge 800mA. Current limited by mains PTC and DC regulator

### ENCLOSURE

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

### GENERAL

- Approx. Weight 1.55 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        |               |                   |                   |                    |
|---|---------------|---------------|-------------------|-------------------|--------------------|
|   | F61 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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