

MESSENGER F62-SMS

APPLICATION

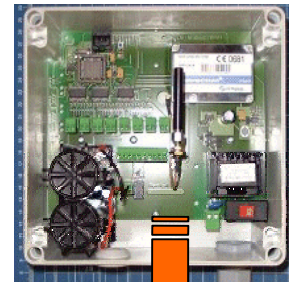
The "Text Messenger System" was designed specifically as a low cost method of monitoring remote/unmanned sites, processing plant and equipment. Communication is over air using GSM mobile phone technology. Immediate notification of event/alarm occurrences are forwarded to as many as three mobile phone users via simple SMS text messages. The text messages are pre-programmed using the Text Messenger programming utility on a pc. The Text Messenger can operate using Pre-pay SIM cards, avoiding costly monthly rental charges.

FUNCTIONALITY

- Monitors 8 digital inputs (can be expanded to 24).
- Counts Pulses on all 8 inputs (activity monitor).
- Built in GSM modem and antenna for transmitting data and alarms
- Mains Powered (230V/110V) with rechargeable lead acid battery
- Routine cold start message to enabled mobiles to confirm readiness
- Fully re-programmable text (up to 32 characters in length) per input. 16x messages.

- Fully re-programmable text for site name (up to 32 characters in length).
- Fully re-programmable text for mains supply status (up to 32 characters in length). 2x messages.
- Fully re-programmable text for battery supply status (up to 32 characters in length). 2x messages.
- Text for regulator status. 2x messages.
- Up to 3 mobile telephone numbers can be configured to receive messages.
- Alarms can be configured for resending up to 6 times, at programmable intervals (15,30,60 minutes).

- Can be remotely reprogrammed over GSM. (function only available when used in conjunction with Data enabled SIM card)



08:34 22/09/03
Operation Stopped



- 4 expansion ports for additional (customised) I/O cards
- Local Diagnostics/configuration Port
- BI-Colour LED for activity indications.
- Test Button.
- Wall mount enclosure, IP68 fitted with vent to IPX4.

Text Messenger's can be supplied with standard or customer specific firmware code.

PRODUCT FUNCTION QUICK REFERENCE GUIDE

	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	✓	✓	✓	✓	✓
Mains powered		✓		✓	
Battery Back up (lead acid)		✓		✓	
Self powered (Lithium)	✓		✓		✓
Reports to host software (See spec sheet)	✓	✓	✓		✓
Sends SMS alarms directly to mobiles				✓	
GPS receiver			✓		
Operates with data enabled SIM card	✓	✓	✓	✓	
Operates with 'Pay as you Go' SIM card				✓	
Operates with fixed landline					✓
Additional expansion ports		✓		✓	
Automatic mains & battery monitoring		✓		✓	

TECHNICAL SPECIFICATION

COMMUNICATIONS

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

INPUTS

	24 direct connections
Type	Normally Open / Closed (NO/NC) is software selectable. Programmable activity monitor is software selectable (1-255 state changes). Programmable Latching input (NO/NC) is software selectable, reset programmable 1-255 seconds.
Minimum time required to detect input operation (i.e. debounce)	20 ms (debounce).
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 0.14-1.5mm ²
On board Input Event Logs Memory	100 (expandable if required)
On board Comms Event Logs Memory	100 (expandable if required)

MESSAGES

Digital Inputs	16 programmable messages up to 32 characters each, expandable to 48 messages.
AC Monitoring	2 programmable messages up to 32 characters each.
On board Regulator Monitoring	2 messages up to 32 characters each.
Float charged battery	2 programmable messages up to 32 characters each.
Cold Start	1 programmable message up to 32 characters.
Site Name	1 programmable message up to 32 characters.

MESSAGE SENDING

Mobile Numbers	Up to 3 mobile numbers configureable (must have SMS capability).
Re-sends	Programmable 1-6 for alarms. Interval between resends programmable at 15, 30 or 60 minutes

POWER SUPPLY

External Supply	230/115v ac, switch selectable, 1A fused nominal power 100 mWatts
Battery specification	Double 'D' "Cyclon" sealed lead acid 2.5Ah 4V
current consumption	Quiescent: 1 mA. TX/RX: 200mA to 600mA at 4V dc. Max. charge 800mA. Current limited by mains PTC and dc regulator.

ENCLOSURE

Rating	IP66, fitted with Vent to IPX4
Material	Non Flammable Polycarbonate, colour RAL 7035
Dimensions	182mm (h) x 180mm (w) x 90mm (d)
Mounting	4 x M4 (5mm diameter) wall mounting holes. Holes located outside watertight seal. Holes at 115mm vertical and horizontal centres.

GENERAL

Retry Algorithm (for failed calls)	10 retries at approximately 1 minute intervals, per mobile.
Remote Programming	"data enabled" GSM SIM card must be fitted.