

**GAI-TRONICS®**

## SOLAR POWERED GSM-R TITAN

### Metal Bodied Weather Resistant

The implementation of over 14,000 km of GSM-R enabled railway is well underway. In spring 2013 it was announced that the implementation of the Southern half of the UK GSM-R system was complete, with the rest of the UK set to go live by the end of 2014.

GSM-R will provide secure communication between drivers and signallers across Britain's entire passenger rail network including cuttings and tunnels, improving safety and providing better information for passengers. GSM-R technology has been adopted as the global standard, and GAI-Tronics have developed a stand-alone GSM-R, Solar Powered modular phone system which has been approved for use by Network Rail on the UK Rail Network reducing installation costs by eliminating the need for cable.



- Network Rail Approved PA05/04888
- Rugged, high-gain antenna as standard
- Tamper resistant 12V (10W) solar panel
- 2.5m galvanised or yellow post
- Up to 250 hours standby, 10 hours talk time (with no daylight)
- Weather resistant up to IP66
- Operating temperature -20°C to +60°C
- Armoured steel cord handset
- Inductive coupler fitted as standard
- Remotely configurable via SMS
- Automatic handset acoustic path testing
- Remote monitoring via SMS
- Accepts standard 2G SIM cards, either GSM-R or GSM

Designed for use outdoors, the new GSM-R solar powered phone offers wireless communications to give you a completely stand alone telephone. The battery and GSM-R electronics are integral to the telephone to provide a complete rugged telephone for permanent or temporary installations.

The GAI-Tronics GSM / GSM-R vandal and weather resistant telephone is accepted for use at User Worked Crossings and other similar locations where there are currently no fixed line infrastructure or, where cost savings can be made in removing the fixed line infrastructure.

Advanced features of the telephone include the capability to play pre-recorded call progress announcements and remote management to reduce site visits and maintenance costs. For complete and comprehensive system monitoring, GAI-Tronics can offer its Telephone Management Application (TMA), see brochure B027.

\* An optional feature.

| Catalogue Number | Description  |
|------------------|--|
| 0087/038232      | Solar Panel and Masthead Assembly  |
| 0087/038233      | 2.5m Galvanised Post (mounts to SPT concrete base)   |
| 0087/038234      | 2.5m Galvanised Post Powder Coated in Yellow RAL 1018 (mounts to SPT concrete base)            |
| 0087/038235      | Titan GSM-R, 0 Button, SC Grey (RAL 7004) - Faceplate Only (inc. modem, etc.)                  |
| 0087/038236      | Titan GSM-R, 0 Button, SC Grey (RAL 7004) - Complete Unit                                      |
| 0087/038237      | Titan GSM-R, 0 Button, SC Grey (RAL 7004) with No. 1 Key Lock - Complete Unit                  |
| 0087/038238      | Titan GSM-R, 15 Button (full dial pad), SC Grey (RAL 7004) - Faceplate Only (inc. modem, etc.) |
| 0087/038239      | Titan GSM-R, 15 Button (full dial pad), SC Grey (RAL 7004) - Complete Unit                     |
| 0087/038240      | Titan GSM-R, 15 Button (full dial pad), SC Grey (RAL 7004) with No. 1 Key Lock - Complete Unit |
| 0087/038241      | Titan GSM-R, 0 Button, SC Yellow (RAL 1018) - Faceplate Only (inc. modem, etc.)                |
| 0087/038242      | Titan GSM-R, 0 Button, SC Yellow (RAL 1018) - Complete Unit with Soft Close                    |

Available from:

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**UNIPART**  
**RAIL**



**GAI-TRONICS®**

## **RUGGED and WEATHERPROOF TELEPHONES and HELP POINTS**

### **GAI-Tronics PHP400 Help Point**

The design of the unit takes into consideration the requirements of The Equality Act 2010. PHP400 units are 400mm diameter, 88mm deep. **2 button autodialler** Buttons labelled "Information" and "Emergency". **1 button autodialler** can be configured to dial a stored number or as a 'hotline', where the exchange routes the call.

Available as SMART Analogue, VoIP-SIP and GSM, powered with 48Vdc. Mains powered versions are also available.

#### **SMART Analogue**

**Self Monitoring And Reporting Telephone** can be integrated with GAI-Tronics' TMA monitoring and maintenance software. SMART gives advanced features including remote programming, fault monitoring and call logging, all from a line-powered telephone capable of operating up to 7km from the exchange on a two-wire cable.

#### **GSM**

The GSM version has dual band 900/1800 MHz. It accepts a standard SIM card and has an integrated on-body antenna, which can be removed and sited up to 3m away if required, using the cable provided.

#### **Voice over IP (SIP protocol)**

For connection to a VoIP enabled network, GAI-Tronics VoIP-SIP telephones offer direct connection to LAN or WAN via RJ45 Connector. GAI-Tronics VoIP-SIP phones offer a wealth of additional features including real-time reporting via Syslog, and can be configured by web browser.



0087/037993

| Catalogue Number | Description              |
|------------------|--------------------------|
| 0087/037992      | PHP400 1 button VoIP/SIP |
| 0087/037993      | PHP400 2 button VoIP/SIP |
| 0087/037994      | PHP400 1 button Analogue |
| 0087/037995      | PHP400 2 button Analogue |
| 0087/037996      | PHP400 1 button GSM      |
| 0087/037997      | PHP400 2 button GSM      |

### **GAI-Tronics TITAN Telephone**

Titan's aluminium body is robust and designed to look good and last longer in hostile outdoor environments. Titan is simple to install with fixings concealed from view giving increased security from vandalism. Cable entries are via water-tight glands while push buttons are weather sealed. The spring loaded door also gives extra weather protection to the telephone.

0 button CB can be used to initiate a PABX 'hotline' or lift handset and wait for reply, where the PABX does the call routing/dialling.



0087/037926

| Catalogue Number | Description                                     |
|------------------|---|
| 0087/073303      | Titan CB, Grey with Curly Handset Cord, no door |
| 0087/037914      | Titan CB, Grey with Steel Handset Cord          |
| 0087/037915      | Titan CB, Grey with Curly Handset Cord          |
| 0087/037926      | Titan CB, Yellow with Steel Handset Cord        |
| 0087/037927      | Titan CB, Yellow with Curly Handset Cord        |
| 0087/038043      | Mounting Post, Yellow                           |

### **GAI-Tronics Titan Illuminated Crossing Phone (PETS)**



The Titan Illuminated Crossing telephone is specifically designed and approved for installation at automatic half barrier (AHB) level crossings with Public Emergency Telephone System (PETS I and PETS II).

The telephone is fitted with a white backlit legend panel, which can be used to provide visible instructions at night.

| Catalogue Number | Description   |
|------------------|---|
| 0087/037961      | Titan Illuminated Crossing Phone (PETS) to connect to PETS concentrator |

### **GAI-Tronics Titan KETS (Kestrel Emergency Telephone System) for level crossing**



Based on the GAI-Tronics Titan, this new mechanical design has an illuminated instruction panel with 'Press to Call' button and is provided with a 'soft close' door suitable for public use. The internal control circuitry has been developed by FAI-Kestrel as part of the overall system design.

- Simplicity of Installation
- PBX interface incorporated as standard
- No UPS power requirement at the crossings

| Catalogue Number | Description   |
|------------------|---|
| 0087/038055      | Titan KETS (Kestrel Emergency Telephone System) to connect to Hawk concentrator |