

# SOLAR POWERED GSM-R TITAN



Metal Bodied Weather Resistant



*Network Rail Approved*

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. Contact GAI-Tronics

- 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  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- 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

#### 15 button Full Keypad

The 15 button keypad versions include: **S** 'Microphone mute' or 'Silence', **R** 'Recall', **LR** 'Last number redial'



#### Hot Dial (0 button CB)

Again programmable via SMS, simply lift the handset to automatically call a pre-programmed number.



# Solar Powered GSM-R Titan - Technical Specifications

## Technical Specifications

**Casing Material:** Die cast aluminium, epoxy powder coated.  
Colours: yellow

**Handset Material:** Cyclopol with stainless steel spiral cord.  
Noise cancelling handset version available

**Keypad:** Weathersealed tactile digital keypad. Silicone rubber material, resistant to most chemicals and solvents

### Antenna

Rugged, externally mounted antenna included

**Temperature: Operating:** -20° C to +60° C

**Weather Resistance:** Door open - up to IP65, Door closed - IP66

**Ringtone:** Shrill warble tone 75 dBA @ 1 metre typical

**Hookswitch:** Electronic / magnetic with no visible moving parts

**M.T.B.F.:** Calculated to have an M.T.B.F. in excess of 50,000 hours using MIL-HDBK-217F Notice 2

**Weight:** Up to 5 kg depending on option

**Power supply:** AC Adaptor 110-230VAC to 12VDC.

Internal battery (4V sealed lead acid).

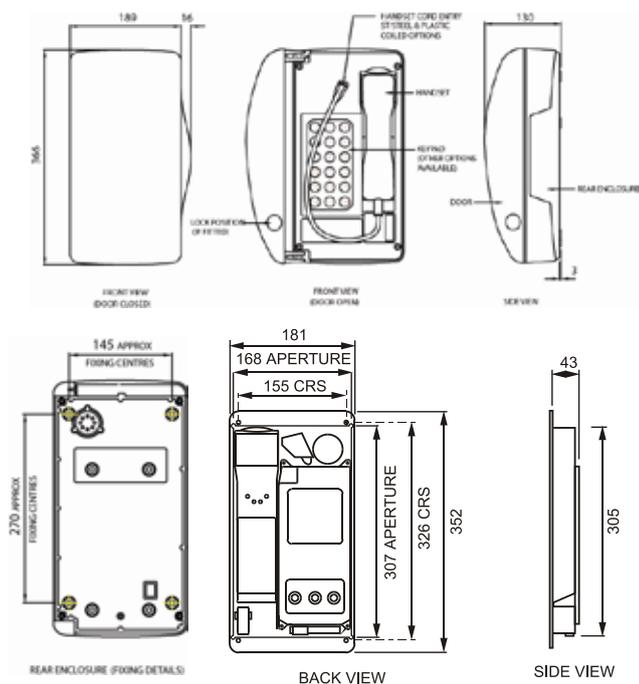
Up to 250 hours standby or up to 10 hours continuous talk time.

Can be connected directly to Solar panel (12V) without additional charge controller.

**GSM Bands:** Quad-band GSM/GSM-R

**Configuration:** Remotely programmable via SMS

## Dimensions



## Optional Telephone Accessories

Ask for Brochure B150 or visit [www.gai-tronics.co.uk](http://www.gai-tronics.co.uk)

## Solar Panel / Masthead Assembly

**Voltage:** 12V, 10W

**Peak Output (pMax):** 10W (Warranted minimum(pMax) 9W)

**Peak Voltage (Vmpp):** 16.7V

**Peak Current (I mpp):** 0.6A

**Open Circuit Voltage (V oc):** 20.8V

**Short Circuit Current (I sc):** 0.64A

**Dimensions:** 317mm x 352mm x 50mm

**Weight:** 2.1 kg

**Masthead Assembly:** Further security against theft of the solar panel can be achieved by fitting a padlock through the supplied locking pin (padlock not supplied)

## Solar Post

**Material:** Steel

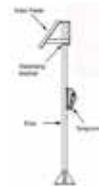
**Colour:** Galvanised or Yellow

**Operating Temperature:** -20° C to +60° C

**Weather Resistance:** IP65

**Dimensions:** 2.5m high

**Weight:** ~30 kg



## Approvals



This mark indicates compliance with the:  
Radio & Telecommunications Terminal Equipment Directive  
1999/5/EC (R&TTE)  
2011/65/EC- RoHS 2 Directive



This mark indicates compliance for inductively coupling to  
Hearing Aids having a 'T' switch position  
Tested to ETS 300-381 and in accordance with ITU-T P37.



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## Order Information

T: 01283 500500, F: 01283 500400, E: [sales@gai-tronics.co.uk](mailto:sales@gai-tronics.co.uk)

Part No.	Description	PADS No.
100-02-2100-001	Solar Panel & Masthead Assembly	087/038232
501-20-0696-002	Post, galvanised, 2.5m	087/038233
501-20-0696-003	Post, yellow, 2.5m	087/038234
230-02-1000-201	GSM-R Titan, CB, grey, s/cord, faceplate only	087/038235
230-02-1000-221	GSM-R Titan, CB, grey, s/cord, complete unit	087/038236
230-02-1000-261	GSM-R Titan, CB, grey, s/cord, No. 1 key lock, complete unit	087/038237
230-02-100F-201	GSM-R Titan, 15btn, grey, s/cord, faceplate only	087/038238
230-02-100F-221	GSM-R Titan, 15btn, grey, s/cord, complete unit	087/038239
230-02-100F-261	GSM-R Titan, 15btn, grey, s/cord, No.1 key lock, complete unit	087/038240
230-02-1000-202	GSM-R Titan, CB, yellow, s/cord, faceplate only	087/038241
230-02-1000-252	GSM-R Titan, CB, yellow, s/cord, complete unit with soft close	087/038242

[www.gai-tronics.co.uk](http://www.gai-tronics.co.uk)



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