



GTC1 Sounding Data Receiver

GTC1 Sounding Data Receiver is originally designed as the L Band sounding contingency system, which is used to instead of 1680MHz Radar when it has some malfunction and cannot be maintained at once.

GTC1 COMPONENT REQUIREMENTS

- Outdoor paraboloid dish assembly
- Antenna rotating platform
- Low-noise UHF antenna amplifier
- Indoor Receiver and Processor
- 50m Cables

Paraboloid Dish Assembly— gathering in more signals to focus on the feed source of the antenna, in order to enhance the receiving sensitivity.

Low-noise UHF Amplifier— the technology of twice frequency demultiply (L Band to P Band, P Band to 30MHz) improves the stability and anti-interference ability of the system.

High-grade Decoder- making use of the 800kHz and 32kHz twice frequency selection amplifier and high quality decoder circuit to ulteriorly reduce the affect of interference and noise.

Manual Antenna Control Mode— the elevation and the azimuth of the antenna can be adjust conveniently and exactly by means of the manual electro-controlled operating mode, and the signal intensity is obviously shown on the ammeter.

GTC1 探空数据接收机

GTC1 探空数据接收机最早是作为 L 波段高空探测应急接收设备而设计的。当 1680M 雷达出现故障且不能及时修复时，GTC1 可代替雷达进行高空气象探测业务。

GTC1探测系统组成

- 室外抛物面天线
- 天线转动台
- 低噪声超高频天线放大器
- 室内接收机
- 50 米电缆

抛物面天线—将尽可能多的信号汇聚在天线焦点的馈源上，增加了天线接收灵敏度。

低噪声超高频放大器—采用二次降频（L波段降至P波段、P波段降至 30MHz）技术，提高了系统稳定性和抗干扰能力

优质解码器—利用 800kHz、32kHz 二次选频放大器和优质解码电路，进一步降低了噪声和干扰的影响。

手动天控模式—采用手动电控，可以方便调节天线仰角和方位角的位置，并可通过电表显示信号强弱。

TELEMETRY**接收机**

Working frequency range	1669MHz ~ 1681MHz
Sounding range	> 80km
Sounding altitude	Up to 30km
Elevation range	0° ~ 90°
Azimuth range	0° ~ 360°
Antenna type	0.6m paraboloid antenna
Total gain	≥120dB
Data output connecter	
compatible with GTS1-L Band Sounding	
System data processing terminal	

PHYSICAL DIMENSIONS (l x b x h)**尺寸**

Telemetry Receiver	496×176×276 mm
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POWER SUPPLY**电源**

AC 150...240V, 50...60Hz

STORAGE**储存**

Storage temperature range	-30°C ~ +50°C
Storage humidity range	0%RH ~ 85%RH



Shanghai Changwang Meteotech Co.,Ltd.

No.669 MinQiu Road, Pudong New Area, 201209 Shanghai, P.R.China

Tel: +86 21 58633600 Fax: +86 21 58633527 E-mail:chw_dev@cwqx.com

For more detailed contact information visit us at: www.cwqx.com