

Applicable MIL-STD-810C/D/E/F

Applicable MIL-STD	810C		810D		810E		810F	
	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	1,2	500.3	1,2	500.4	1
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2	501.4	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2	502.4	1,2
Temp. Shock	503.1	1	503.2	1	503.3	1	503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1,2
Rain	506.1	2	506.2	2	506.3	1,2	506.4	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3	507.4	1
Salt Fog	509.1	1	509.2	1	509.3	1	509.4	1
Dust	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	8,10	514.3	1	514.4	1	514.5	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4	516.5	1,4

General

Frequency Range* (MHz)	VHF: 136-174 UHF: 350-400 400-470 450-512	
Channel Capacity	512	
Channel Spacing (kHz)	12.5/ 25	
Operating Voltage	13.6 V DC \pm 15% / 88-264V AC 50/60Hz	
Duty cycle	100% Continuous (5/10/25W) / 50% Intermittent (45/50W)	
Current Drain	Standby	<1.8A
	Receive	<2.5A
	Transmit	<13A
Frequency Stability	\pm 2ppm @ -30°C~+60°C	
Operating Temperature (°C)	-30~+60	
Antenna Impedance (Ω)	50	
Dimensions (L×W×H) (mm)	310x190x362	
Weight (kg)	11	
LED Indicators	Battery On, Tx, Rx, RPT, OPT, Setup	

Transmitter

RF Power Output	25W/50W (VHF) 25W/45W (UHF)
Modulation	8K5 Φ F3E / 16K Φ F3E
Spurious and Harmonics	\leq -36dBm (< 1GHz) \leq -30dBm (\geq 1GHz)
FM Noise	\geq 45dB(Wide) \geq 40dB(Narrow)
Modulation Distortion	\leq 3%

All specifications are tested according to TIA/EIA-603, and subject to change without notice due to continuous development.

Receiver

Sensitivity (12dB SINAD)	$<$ 0.35uV
Selectivity	\geq 70dB (wide) \geq 60dB (narrow)
Intermodulation	\geq 70dB
Spurious Response Rejection	\geq 75dB
S/N	$>$ 45dB (wide) $>$ 40dB (narrow)
Rated Audio Power Output	5W (Internal) 13W (External @ 4 Ω)
Rated Audio Distortion	\leq 3% (3W) \leq 10% (5W)

Duplex Operation

Receiver Desensitization	\leq 3dB
Receiver Spurious Rejection	\geq 67dB

*Radio Dependent, Crossband Model is Available.



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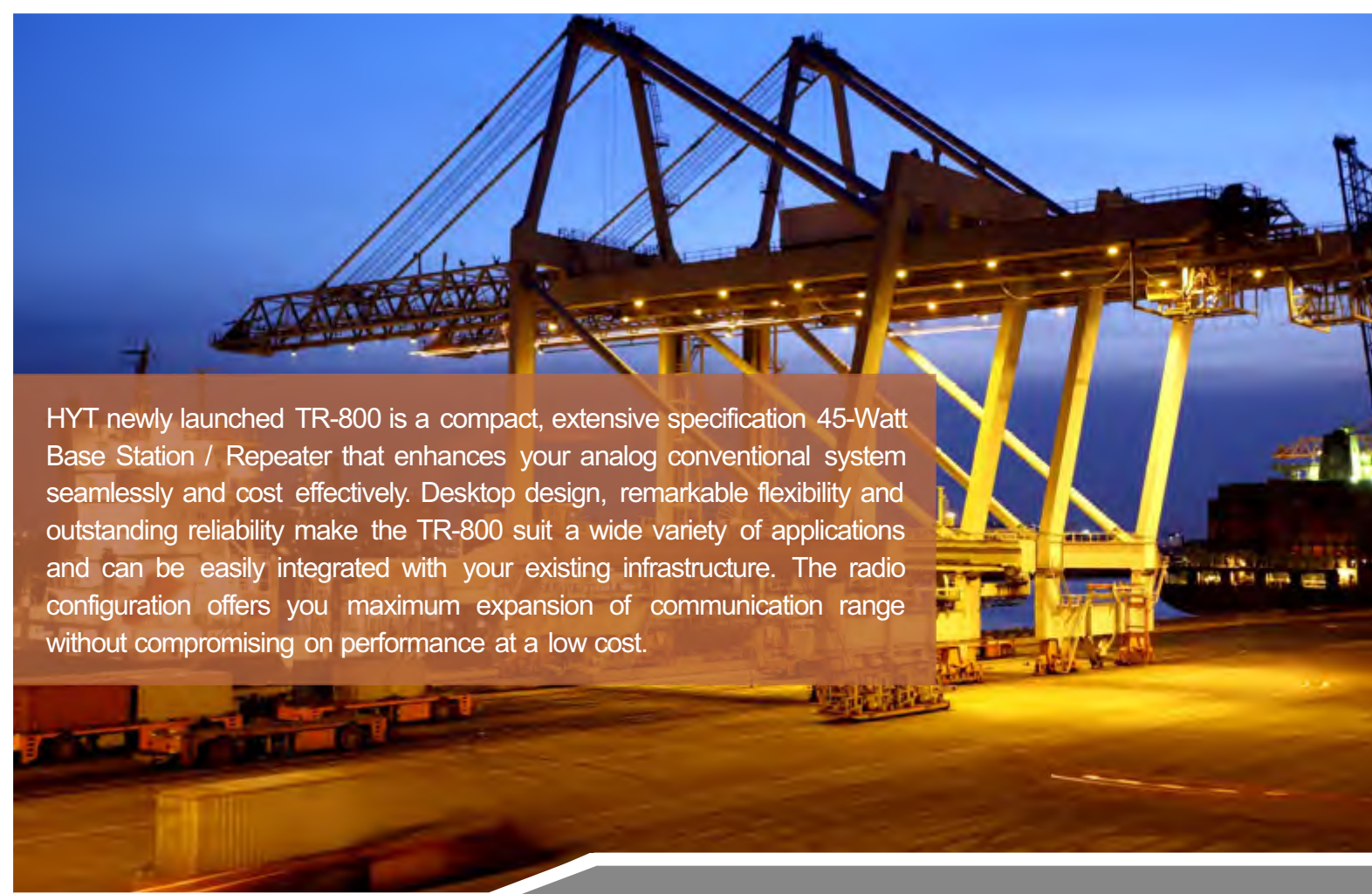


TR-800

Conventional Base Station / Repeater



- Integrated Front Panel with Repeater Controller
- Sleek & Compact Desktop Design
- Powerful, Varied Speed and Thermal-controlled Fan
- Optional AC, DC Power Supply



HYT newly launched TR-800 is a compact, extensive specification 45-Watt Base Station / Repeater that enhances your analog conventional system seamlessly and cost effectively. Desktop design, remarkable flexibility and outstanding reliability make the TR-800 suit a wide variety of applications and can be easily integrated with your existing infrastructure. The radio configuration offers you maximum expansion of communication range without compromising on performance at a low cost.

TR-800

Conventional Base Station / Repeater

Exceptional Benefits

Integrated Front Panel with Repeater Controller

The logic and audio circuitry is integrated with display unit in a single control panel, which provides smart and simple access to both radios inside. The front panel LEDs show real-time condition of the TR-800.

Configuration Flexibility

You can choose the best-fit frequencies and power levels for your business - or combine two frequencies to create a bi-directional or crossband repeater.

Sleek & Compact Desktop Design

The TR-800 suits any office location, and allows convenient access for system adjustments.

Powerful, Varied Speed and Thermal-controlled Fan

A 4.7" brushless fan mounted on the back and the front vent-slot provide good ventilation for the transmitter. The fan is thermal-controlled for quiet performance and enhanced efficiency.

Optional AC, DC Power Supply

The TR-800 provides a wide range of AC mains input to accommodate local standard.

Floating Charge

The floating charge function is intended to maintain a back-up battery for long periods of time between power failures.

Unique Versatility

CTCSS/CDCSS Feature

Allows you to talk on personal groups exempt from disturbance and illegal intrusion.

Repeater Hang Time

Makes the repeater remain transmitting after an active and valid signal is no longer received, which reduces delay on conversation due to the setup of repeater link. The duration time can be programmed from 0 to 7 seconds.

Real-time Scan

Enhances your cost-effectiveness and broadens your customer base by time division sharing, and eases conventional roaming service as well.

Operation Flexibility

Offers you a range of options to accommodate your application requirements. You can choose Base station, uni-directional repeater or bi-directional repeater mode through configuration of the front panel and internal switches.



Selectable Power output (HI/MED/LOW)

Helps you balance the power consumption and communication range - critical in location with only DC power supplies.

Time-out Timer

Prevents user from excessive use of repeater.

Readable Frequency

Allows quick and easy access to channel configuration during system diagnosis.

Recommended Applications

- Manufacturing
- Property management
- Construction
- Retail
- Hospitality
- Warehousing

Accessories

Standard Accessories	AC power cable PWC03 DC power cable PWC04	DC Fuse POA10 AC Fuse POA11
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Optional Accessories

 UHF/VHF Omni-directional Antenna	 Desktop Microphone SM10R2	 Programming Cable Kit (COM port) PC21	 Palm microphone SM07R2
 UHF/VHF Mobile Radio Antenna	 Duplexer DT01 (Freq. Range: 137-172MHz, Tx/Rx Split: 4.5-13MHz)	 Duplexer DT02 (Freq. Range: 336-370MHz, Tx/Rx Split: 10MHz) Duplexer DT03 (Freq. Range: 380-470MHz, Tx/Rx Split: 5-20MHz)	 Duplexer DT07 (Freq. Range: 400-480MHz, Tx/Rx Split: 5-10MHz)
	 Duplexer DT06 (Freq. Range: 130-176MHz, Tx/Rx Split: 4.5-13MHz)	 Duplexer DT08 (Freq. Range: 350-390MHz, Tx/Rx Split: 5-10MHz)	 Duplexer DT10 (Freq. Range: 350-390MHz, Tx/Rx Split: 5-10MHz)