

TRANSCOM INSTRUMENTS

Product Brochure



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TY800 Leaky Feeder Monitoring Module

Overview

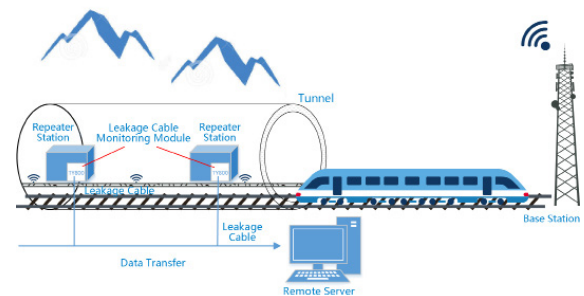


GSM-Railway communication system operational quality is closely related to daily railway operating system's safety and stability. Leaky feeder, which is the key factor to operational security of GSM-R, its monitoring and fault locating are critical issues to railway routine activities.

Transcom radiating cable monitoring module TY800, precisely measures parameters of the leaky feeder such as VSWR, Return-Loss etc. TY800 connects with PC through LAN or RS485 (optional) to reads and locates fault location and sends real-time feedback for remote monitoring and control.

Key Facts

- 6W low power consumption
- Slim design, suitable for different integration
- Over 2000m monitoring distance
- Less than 5m positioning error
- LAN&S485 port with custom communication protocol
- Industrial operating temperature , -40°C to +70°C

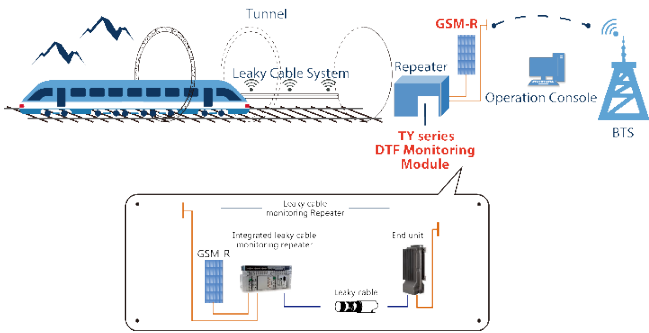


Innovative Features & Benefits



- Industrial grade tunnel leaky feeder monitoring module
- Precise measurement performance
- Stabilized working performance

Solution Highlights



Industrial grade tunnel leaky feeder monitoring module

With qualified industrial design, TY800 can be easily integrate into multiple equipment or instrument in harsh or complex locations. TY800 can be installed directly into railway repeater station to minimize installation cost. Real- time monitoring

Precise measurement performance

Maximum distance: 1.5km or 2km optional

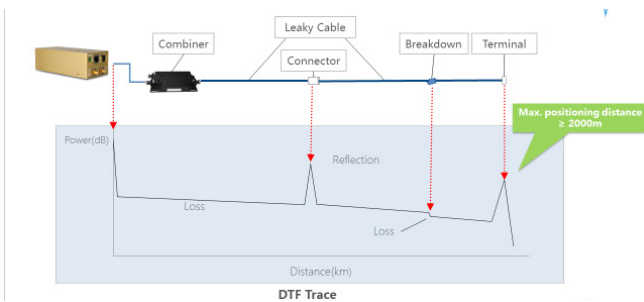
Test resolution: 0.01dB

Default location error range: < 5m

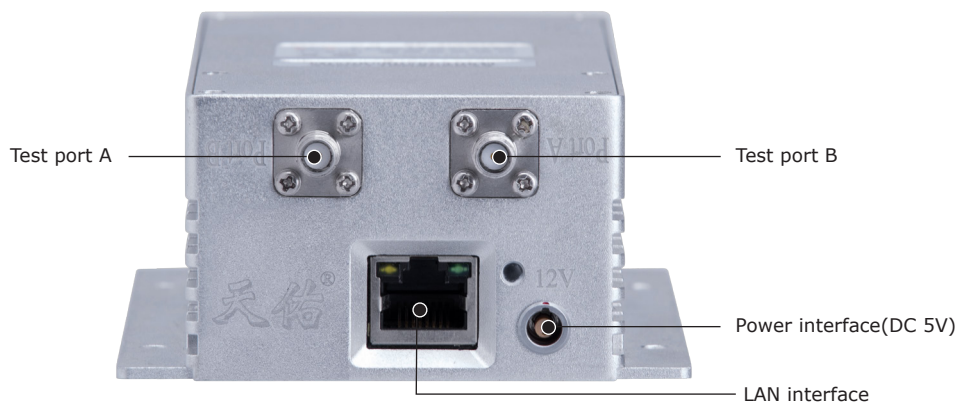
Stabilized working performance

Operating temperature range: -40 °C to +50 °C , suitable for common railway environment

Rigid design enables to function properly under severe environment and extreme temperature



Control Elements



Specifications

General Data	
Impedance	50Ω
Test Port Connector	SMA, Female
Number of Test Port	2
Frequency Range	780MHz to 820MHz (Customized within 85-4000MHz)
Frequency Accuracy	5x10 ⁻⁶
Output Power	< -5 dBm
Number of Measurement Points	801
DTF Return Loss Measurement Range	0 to 100 dB
DTF Cable Loss Measurement Range	0 to 50 dB
Return Loss Measurement Accuracy	0.01dB
Maximum Positioning Distance	2000m (leaky cable loss less than 2.5dB/100 m)
Distance Positioning Accuracy	5m
DTF Return Loss Temperature Stability	0.01dB/°C
Calibration Interval	3 year
System	Linux
Communication Interface 1	LAN
Communication Interface 2 (optional)	RS485
Power Consumption	6w
Power Port	2 PIN connector
Voltage/ Current	+12V/1A
Dimension (L x W x H)	145.5 x 60 x 42.5 mm
Weight	0.5kg
Port Maximum Input Power	+22 dBm
Port Maximum Input Voltage	50V
Operating Temperature Range	-40°C to +70°C
Storage Temperature Range	40°C to +80°C
Humidity	90% (25°C)
Test Format	SWR, Return Loss, DTF SWR, DTF Return Loss.

Ordering List

Model	Description
Host machine	
TY800AA	1500m Leaky Feeder Monitoring Module (normal temperature, -25°C to +70°C)
TY800AB	1500m Leaky Feeder Monitoring Module (low temperature, -40°C to +50°C)
TY800BA	2000m Leaky Feeder Monitoring Module (normal temperature, -25°C to +70°C)
TY800BB	2000m Leaky Feeder Monitoring Module (low temperature, -40°C to +50°C)

Keep innovating for excellence!

About us

Transcom Instrument Co., Ltd. founded in 2005 and headquartered in Shanghai, is a leading manufacturer and provider of RF and wireless communication testing instruments and overall solutions in China. Based on its independent brands and a wide range of core patented technologies, Transcom became national high-tech enterprise with independent intelligent property rights and has been listed into Shanghai Enterprise Recognition Award for High Growth SMEs in Technology.

Transcom is backed by a experienced and dedicated research team in mobile communication, radio frequency and microwave, and network optimization testing instrument. Through "Industry-University-Research" cooperation with universities, Transcom founded Southeast University-Transcom Electronic Measurement Technology Center at Southeast University to futher ensure technology and talent reserve, and secure future visionary and sustainable technology development.

Transcom's product portfolios focus 4 areas: cellular network critical communication planning/maintenance/optimization, Manufacturing testing solution, educational instrument/equipment, spectrum monitoring sensor for system integration.



ISO14001



ISO9001

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Company Profile