

Transponder Measurement System

system for testing transponder parameters, quality assurance test



Transponder Measurement System STM-1001

- certified field strength reference (PTB - certified)
- **for different types of transponder housing special tools are available**
- software support for PCF7930, Hitag1, Hitag2, TEMIC E5550, EM 4001, EM V40/50, Nova
- automatic adjustment
- modulating and non-modulating measurements
- continuous frequency sweep or measurement at three fixed frequencies
- Reading Mode (minimum field strength for data read-out B_{THR} ; field absorption by modulating Tag B_{READ})
- Writing Mode (min. field strength for programming B_{PRG} ; min. modulation index for base station MI_{PRG})
- Timing parameters can be set by the user: position and width of program pulse, data and software reset pulse
- PC interface (**RS-232**)

Technical Data

Power supply:	230V AC / 50Hz; 100VA
Operation temperature	22°C ±2°C
Magnetic field generation	
frequency range	115 KHz - 135 KHz
frequency resolution	100 Hz
frequency accuracy	± 5Hz
field generator voltage	0 - 12Vpp in 3mV steps; 0 - 120 Vpp in 30mV steps
magnetic flux density	0 - 40 µT ;0 - 400 µT (1µT = 1µWb/m ²);
measured data of tag resonant circuit	
resonance frequency	115 KHz - 135 KHz (resolution 100 Hz)
bandwidth	0 - 20 kHz
quality factor	0 - 200
measured data in read mode	
flux density B_{THR}	0 - 400 µT (resolution 0,1µT)
field absorption B_{READ}	0 - 400 µT (resolution 0,1µT)
measured data in programming mode	
flux density B_{PRG}	0 - 400 µT (resolution 0,1µT)
field absorption MI_{PRG}	0 - 100% (resolution 1%)
Interface:	serial, asynchronous, 9600, RS-232 level;

Order Information

The system is an individual device and must be ordered directly by phone in correspondence with an engineer.

Specifications are subject to change without notice