

# WISI WA 45

Transport stream monitor

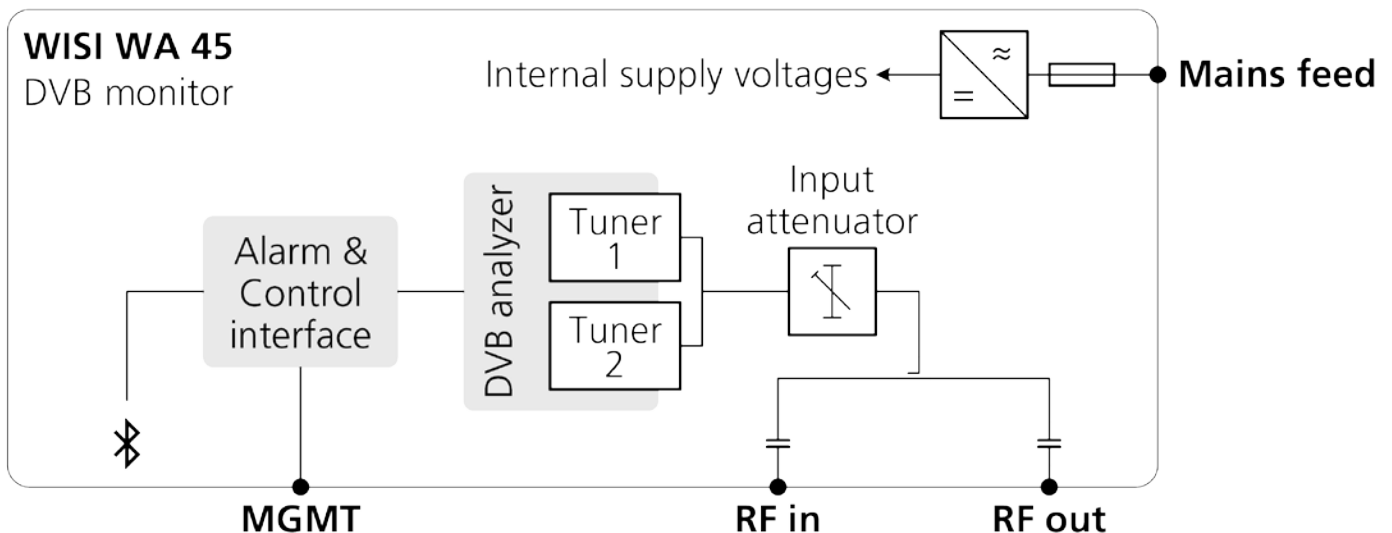


## At a glance:

- Stand-alone Device for CATV-Systems in rough area
- RF-measurement direct or loop through
- Ethernet Connector
- Powered via 230VAC power
- Dual DVB tuner for continuous scanning with DVB-C/T/T2 support
- Downloadable channel table
- RF and MPEG TS signal quality measurement
- TR 101 290 first priority

## Description

The WISI WA 45 is a stand-alone DVB monitor for CATV systems in harsh environments. HF parameters as well as further MPEG-TS TR 101 290 P1 KPIs can be monitored via a direct or through-loop RF connection. Supporting QAM and COFDM (T/T2) modulations, the WA45 is a suitable tool for most service providers. The quick monitoring of a complete channel line-up with the ability to permanently monitor all details on an impaired channel, including alarming per DVB channel, provides the fastest view on your service bouquet.

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## Technical data

RF parameters	
Frequency range in-out	5...1218 MHz
Frequency range TS-Analyzer	42...1002 MHz
Impedance	75 Ω
Input level range	70...120 dBμV
Through loss 5 MHz	max. 0,5 dB
Through loss 300 MHz	max. 0,6 dB
Through loss 600 MHz	max. 0,7 dB
Through loss 1002 MHz	max. 0,9 dB
Return loss 5 MHz	min. 19 dB
Return loss 300 MHz	min. 18 dB
Return loss 600 MHz	min. 17 dB
Return loss 1002 MHz	min. 16 dB
Number of RF tuner	2 independent
Channel bandwidth	6 and 8 MHz
Modulation DVB-C	16-, 32-, 64-, 128-, 256-QAM
Symbol rate DVB-C	1...7,2 Mbaud
Modulation DVB-T/T2	COFDM / OFDM (EN 300 744)
Symbol rate DVB-T/T2	according modulation standard
DVB-T2 (ETSI EN 302 755)	T2-Lite compatible, COFDM demodulator and FEC (LDPC/BCH) decoder, Supports single and multiple PLPs
Compliance	ITU-J83 Annexes A,B,C

## TS-Analyzer Functionality

RF parameter Power	dBμV
RF parameter Modulation	n-QAM
RF parameter SNR	<40 dB
RF parameter BER	Number
RF parameter Uncorrs	Number

## TR 101 290 1st Priority kpl's

1. TS Sync Loss	Loss of synchronisation with consideration of hysteresis parameters. failed: Sync loss of 3 sequent TS packets. passed: Sync OK of 5 sequent TS packets.
2. Sync Byte Error	Sync byte not equal 0x47
3. PAT Error	PID 0x0000 does not occur at least every 0,5s. PID 0x0000 does not contain a table_id 0x00. Scrambling control field not 00 for PID 0x0000.
4. CC Error	Incorrect packet order. Packet occurs more than twice. Packet lost.
5. PMT Error	Sections with table_id 0x02 do not occur at least every 0,5s on the PID which is referred to in the PAT. Scrambling_control_field is not 00 for all PIDs containing sections with table_id 0x02.
6. PID Error	Referred PID does not occur for a user specified period.

## Technical data

Information	Sync Loss Count; Error Mpeg Count; Pid Continuity Error Count; Pid Repetition Error Count; Channel / Service / Pid summary; Service components type and structure; Power / Frequency
Reporting	TCP/IP via Ethernet RJ45 - Optional Bluetooth LE Link Manager Protocol Ver.4.1 1. Device via App. Android 4.3 or higher 2. Host to LR2x

## General data

Supply voltage	230 V AC (± 10% )
Power consumption	<10 W
Dimensions (width x height x depth)	232 x 145 x 86 mm (Aluminium Die Cast, Value Line)
RF connector in, out	PG11, interchangeable connector 3,5/12 or F-Type
Ethernet Connector	RJ45
Power connector	Euro-Plug
Protection class	IP 6x
Electro Magnetic Compatibility (EMC)	EN 50083-2
Operating temperature range	-20...+55 °C
Storage temperature	-25...+75 °C

## WA 45 x xxxx

