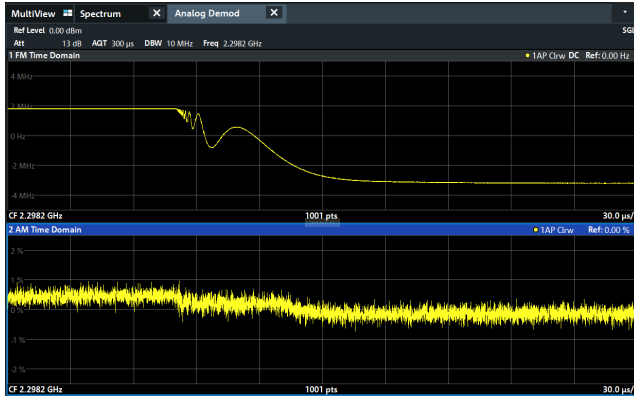


R&S®FPL1-K7 Analog Modulation Analysis

Simple-to-use AM/FM/φM demodulator



| Key specifications | |
|--|---|
| Demodulation bandwidth | 100 Hz to 40 MHz |
| Recording time (depends on demodulation bandwidth) | 158 ms to 83184 s |
| AF filters | |
| High-pass filters | 20 Hz, 50 Hz, 300 Hz |
| Low-pass filters | 3 kHz, 15 kHz, 23 kHz, 150 kHz; 5/10/25 % of demodulation bandwidth |
| Deemphasis | 25 μs, 50 μs, 75 μs, 750 μs |
| Residual AM | 0.1 % (RF ≤ 3 GHz) |
| Residual FM | 130 Hz (RF ≤ 3 GHz) |

Simple-to-use AM/FM/φM demodulator

The R&S®FPL1-K7 AM/FM/φM demodulation option converts the R&S®FPL1000 into an analog modulation analyzer for amplitude, frequency and phase modulated signals. It measures characteristics of the useful modulation and factors such as residual FM and synchronous modulation. Users can choose from a set of low-pass, high-pass, deemphasis and weighting filters.

R&S®FPL1-K7 functions includes:

- Demodulation of AM, FM and φM signals
- Simultaneous viewing of:
 - Modulation signal versus time
 - FFT spectrum of the modulation signal
 - RF signal power versus time
 - FFT spectrum of the RF signal
- Table with numeric display of:
 - Deviation or modulation depth, RMS weighted, +peak, -peak, ± peak/2
 - Modulation frequency
 - Carrier frequency offset
 - Carrier power
 - Total harmonic distortion (THD) and SINAD

| Your benefit | Features |
|--|---|
| All necessary results on one screen | Parallel indication of e.g. spectrum, time domain, result summary.... |
| Detailed analysis of transmitters | Powerful analysis of AM, FM and φM audio signals |
| Measurement of VCO's (e.g. during switching phase) | Analysis of frequency and amplitude transients |

The perfect choice for

Analysis of AM and FM audio signals

Transient and settling measurements of oscillators such as VCOs and PLLs

Troubleshooting AM/FM transmitters

Simple chirp analysis of pulsed or continuous wave signals

► For more information, visit www.rohde-schwarz.com/catalog/FPL1000

