# MSO/DPO2000B Series vs. R&S HMO1002 Series
## Competitive Fact Sheet

## More Channels, Advanced Triggering and Navigation/Search through Record Length
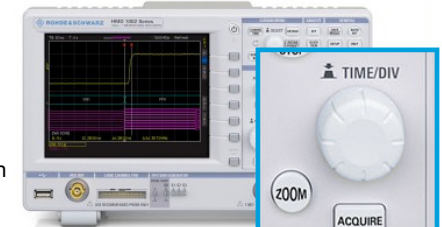
### Tektronix MSO/DPO2000B Series

✓ Up to 4 analog channels and 16 digital channels

✓ Wave Inspector® dedicated Pan/Zoom controls make easy work of scrolling through long records.

✓ Play/Pause button scrolls the waveform across the screen automatically.

✓ Search/Mark controls enable you to search for events of interest, mark them, then navigate through the record mark-by-mark.

### R&S HMO1002 Series

✗ 2 analog channels and 8 digital channels

✗ CH2 will be deactivated when digital channels on

✗ Simplified Zoom control

✓ Auto scrolling of horizontal position to scroll through data.

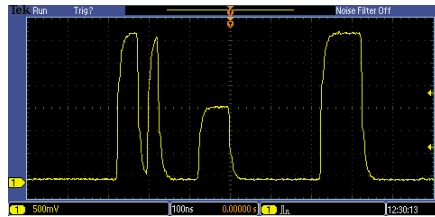✗ Search ability only on analog peak events

## Key Specifications Comparison

| | Tektronix MSO/DPO2000B Series | | R&S HMO1002 | |
|---|---|---|---|---|
| Channels Analog | ✓ | 2, 4 | ✗ | 2, CH2 will be deactivated when digital channel s on |
| Channels Digital (MSO only) | ✓ | 16 | ✗ | 8 |
| Bandwidth | ✓ | 70, 100, 200 MHz | ✗ | 50, 70, 100 MHz |
| Max. Sample Rate (All channels on) | ✓ | 1 GS/s | ✗ | 500 MS/s |
| Standard Record Length (All analog channels on) | ✓ | 1 M points | ✗ | 500 k points |
| Set of Triggers | ✓ | Edge/ Pulse width/ Runt/ Logic/ Setup&hold/ Rise/Fall Time/ Video/ Bus | ✗ | Edge,/Pulse/ Hold/Video/Bus/Logic |
| Navigation and Search | ✓ | Dedicated Wave Inspector zoom controls, Search analog, digital and serial bus. | ✗ | Multiplexed zoom controls, Search only on analog peak |
| Serial Bus Decode Protocol | ✓ | I2C, SPI, CAN, LIN, UART, RS-232/422/485 | ✗ | I2C, SPI, CAN, LIN, UART, RS-232 |
| Serial Bus Decode | ✓ | 2 bus at same time | ✓ | 2 bus at same time |

| | Tektronix MSO/DPO2000B Series | | R&S HMO1002 | |
|---|---|---|---|---|
| Bundle Modules | ✗ ✗ | No function/pattern generator / No Voltmeter | ✓ ✓ | Function/pattern generator / 3 digits Voltmeter |
| Probing Support | ✓ | Probe menu on oscilloscope interacts directly with probe | ✗ | No oscilloscope and probe communications |
| Navigation and Search | ✓ | Dedicated Wave Inspector zoom controls, Search analog, digital and serial bus. | ✗ | Simplified zoom controls, no Search function |
| Max Input Voltage | ✓ | 300Vrms with peaks<=450V | ✗ | 200Vpk |
| Auto Measurements | ✗ | 29 auto measurements | ✓ | 31 auto measurements |
| Connectivity | ✓ | USB-D, USB-H, LAN optional, Video-Out optional PC-SW, API, optional GPIB | ✗ | USB-D, USB-H, Ethernet (RJ45) |
| Warranty | ✓ | 5 years | ✗ | 3 years |
| Display Size (resolution) | ✓ | 7.0-inch wide format (480 x 234) | ✓ | 6.5-inch wide format (640 x 480) |
| List Price Range (GPB) | ✓ ✗ | 70-100 MHz  DPO £866-1,110 / 70-100 MHz  MSO £1,500-1,720 | ✓ ✓ | 50-100 MHz W/o MSO  £715-893 / 50-100MHz W/ MSO  £982-1,160 |

www.tektronix.com/mso2000B

# MSO/DPO2000B Series vs. R&S HMO1002 Series
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## Embedded System Debugging – Triggering

**Tektronix** MSO/DPO2000B Series



Quickly trigger directly on Runt.

✓ 8 major trigger types available, and over 125 trigger combinations possible.

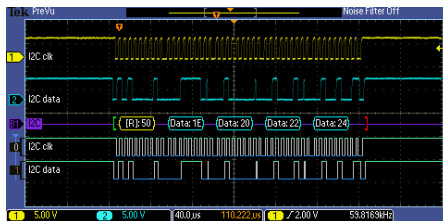✓ Runt, Setup/Hold, Rise/Fall-time trigger types reduce digital debugging time.

**R&S** HMO1002 Series

✗ Only 6 trigger types available.

✗ No Runt, Setup, Rise/Fall trigger types to help with digital debugging.

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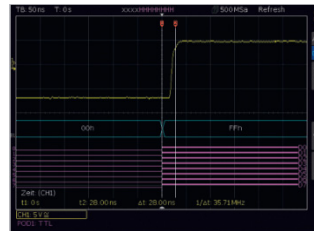## MSO Series Mixed Signal Debug

**Tektronix** MSO2000B Series

✓ View up to 4 analog, 16 digital, and 2 bus waveforms, time-correlated.

✓ Serial bus decode on both analog and digital channels

**R&S** HMO1002 Series

✗ View 8 digital bus waveforms, time-correlated.



Serial bus decode on both analog and digital channels



Serial bus decode not available on digital channels

## Other Advanced Featured Options from Tektronix

Tektronix 2 channel TBS1000B Series

✓ 2 channel model on 50, 70, 100,150, 200 MHz models

BW<100MHz with 1 GS/s and BW>=100MHz with 2GS/s

Tektronix TDS2000C Series

✓ 4 channel model on 70MHz, 100MHz, 200MHz models

✓ Limited life time warranty (at least 10 years)

Tektronix 4 channel TBS1000 Series

✓ 4 channel model on 60MHz, 100MHz, 150MHz models

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**Tektronix**®