

RF DIGITIZER FOR KLYSTRON MODULATORS



GET CONTROL OVER YOUR SYSTEM WITH SCANDINOVA'S INTEGRATED RF DIGITIZER

With ScandiNova RF Digitizer inside, you get a comprehensive real-time diagnostic tool without the need for further equipment such as a separate oscilloscope.

The RF Digitizer is a 2x16bit/50msps EtherCAT digitizer developed by ScandiNova that samples the forward (FWD) and reflected (RFL) RF waveform. It also calculates several pulse parameters, such as RF Pulse Length and Amplitude (Forward and Reflected Power). The RF Digitizer pulse waveforms can be displayed on the local GUI or retrieved using the external communication protocol.

The Digitizer also helps you protect the Klystron by a redundant hard-wired reflected power interlock (<100 ns) and a Voltage Standing Wave Ratio (Interlock controlled by the ratio between Forward and reflected RF Power).

To enable analyzes of the pulse shape after a possible error message, the digitizer is equipped with a FIFO memory of the five last waveforms for each channel.

The RF Digitizer Unit is a perfect choice to get full control of your system, for both development projects and for securing high performance of a market ready system.

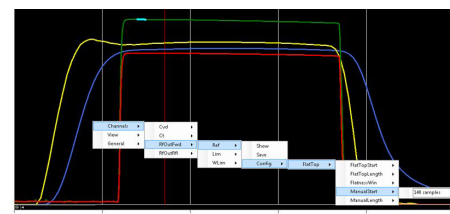
The RF Digitizer can be integrated into all our Klystron Modulators.

For more information please contact us at info@scandinovasystems.com or +46 18 480 59 00.

Information contained in this document is subject to change without notice.

Features

- Forward and reflected RF Power waveforms
- RF Pulse Length and Amplitude
- Reflected Power Interlock
- Voltage Standing Wave Ratio (Value/Interlock)
- Memory of the five last waveforms for each channel.



Visible	ChannelName	TimeStamp	TrigId	Value	CursorTime
0	Cvd T-0	12/01/2018 15:35:47.93	0	155.34 kV	1.812 μs
1	CT T-0	12/01/2018 15:35:47.113	0	110.89 A	1.812 μs
2	RFOutFwd T-0	12/01/2018 15:35:47.93	2424480	-8.21 dBm	1.812 μs
3	RFOutRfl T-0	12/01/2018 15:35:47.123	2424483	-12.38 dBm	1.812 μs

Digitizer window in the local GUI. Waveforms and values of forward/reflected RF and CT/CVD.

HEADQUARTERS

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