

MEGGITT

Enabling the Extraordinary
To Fly To Power To Live

vibro-meter

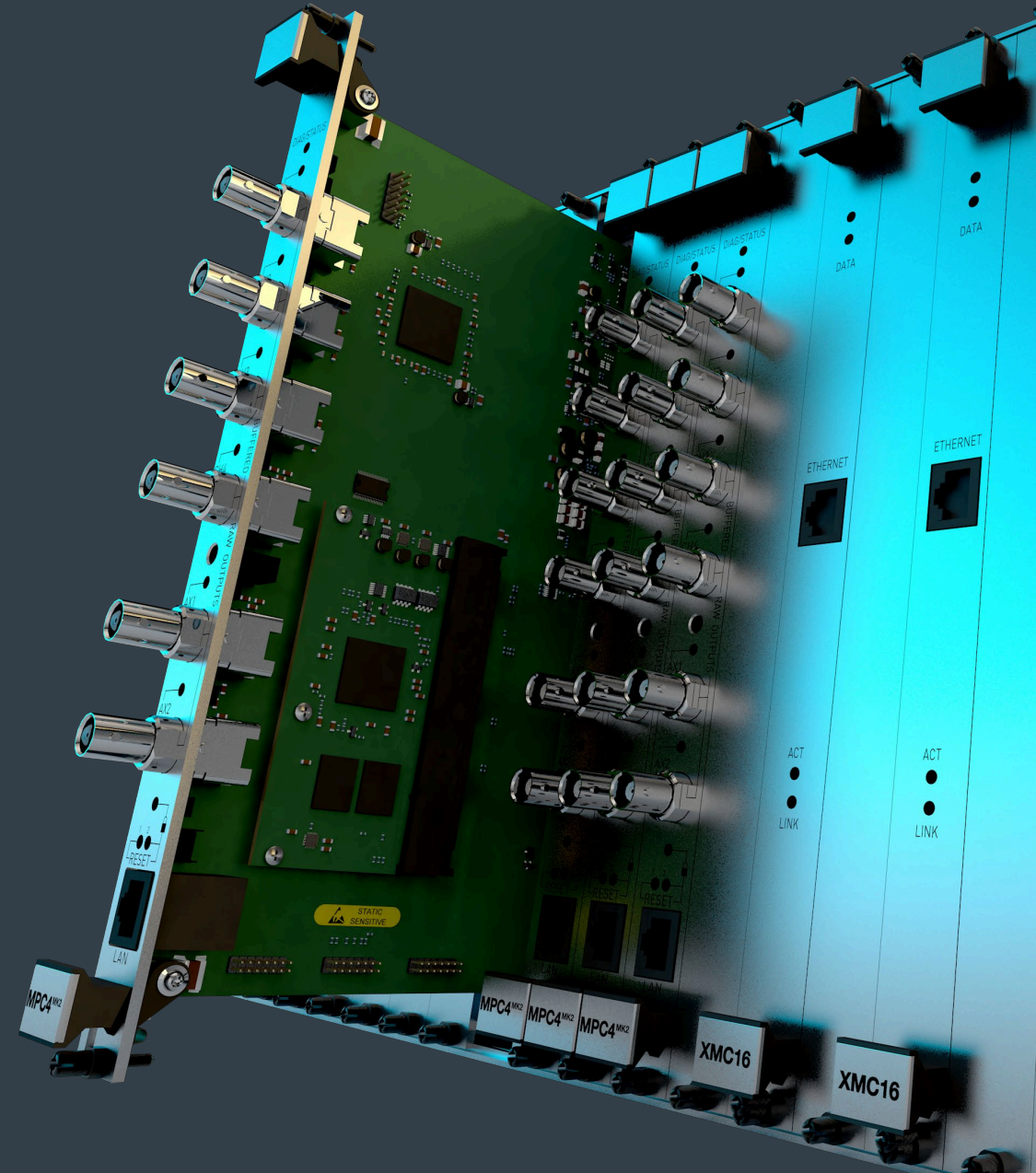
VM600MK2

SUPPORT FOR CONDITION MONITORING

Technical webinar

presented by Alfonso Fernandez,
Product Owner

April 2022



VM600^{MK2} condition monitoring capabilities 3-8

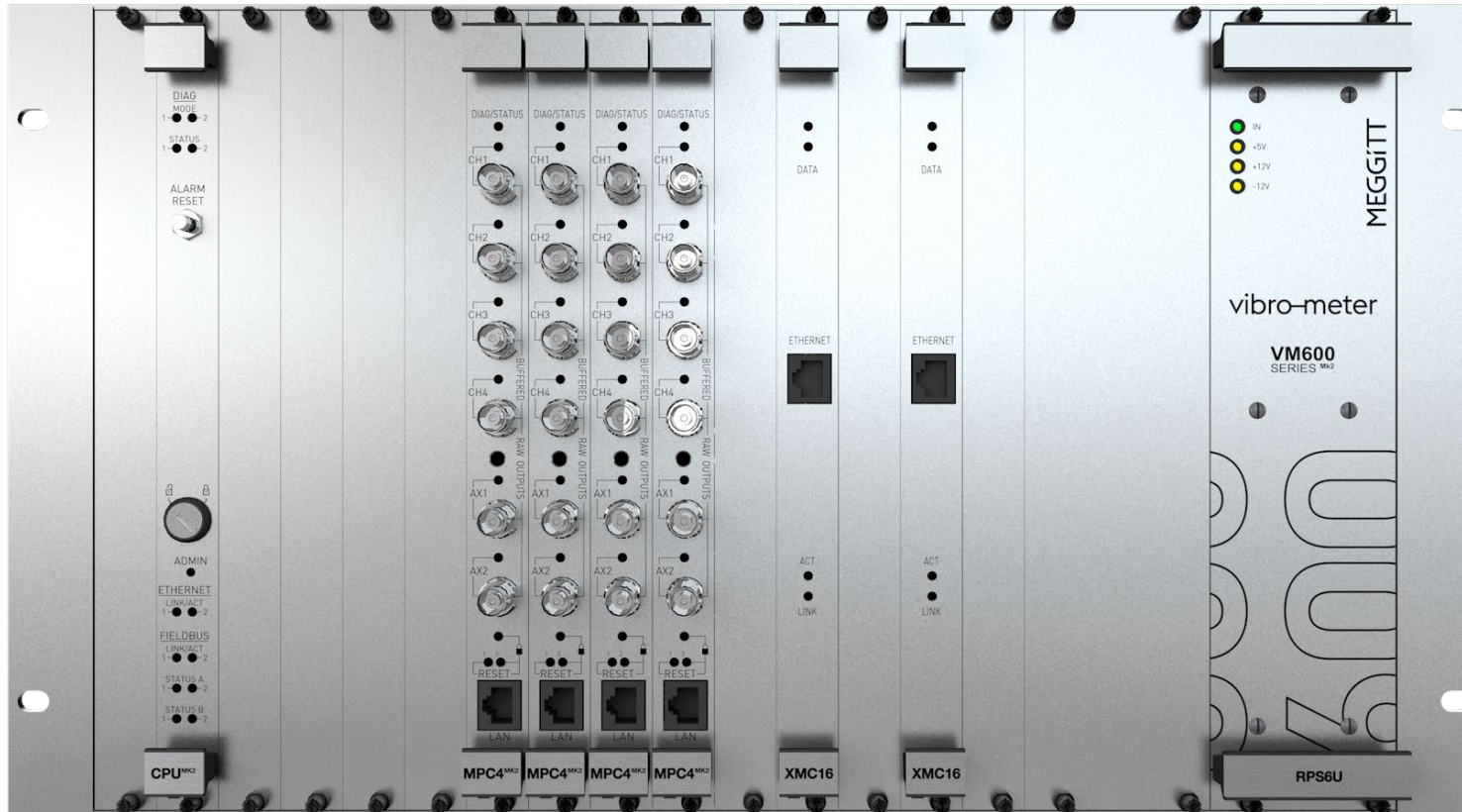
Live demo 9-10

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VM600MK2 CONDITION MONITORING CAPABILITIES

New generation protection and monitoring system

VM600^{MK2}



MPC4^{MK2} + IOC4^{MK2} card pair

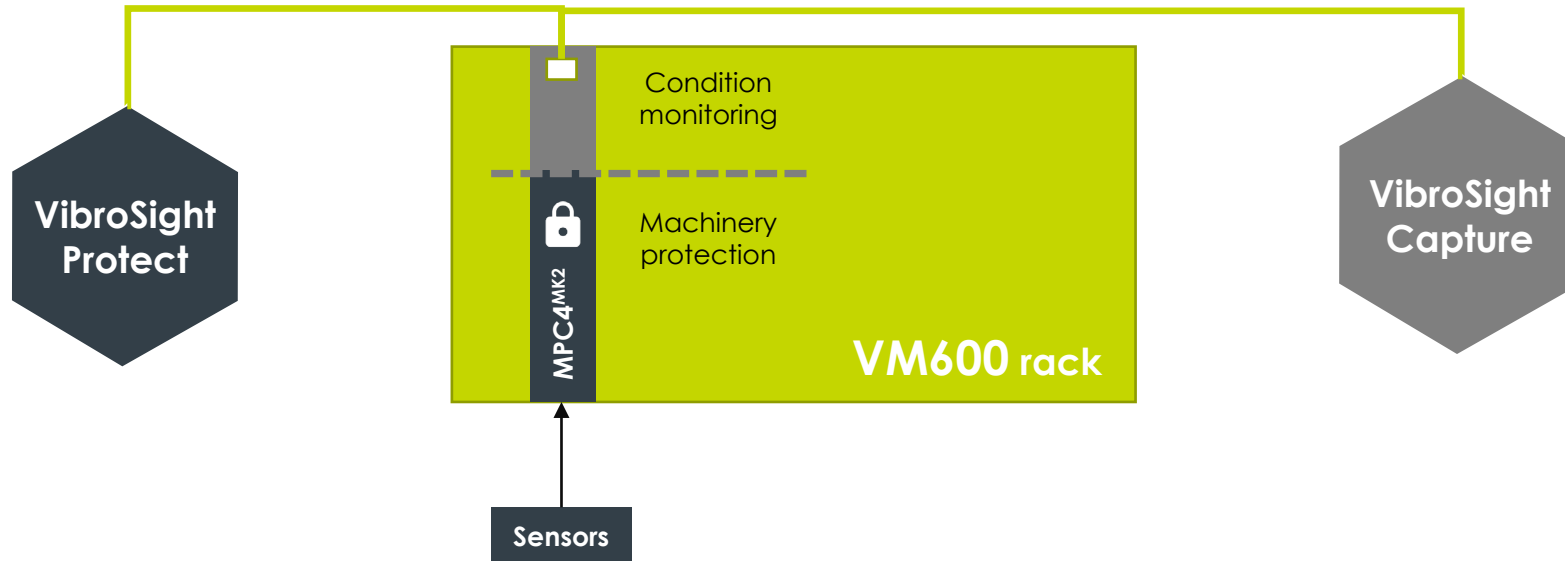
VM600^{MK2} machinery protection and monitoring system



- 4 dynamic input channels + 2 tacho/aux input channels
- 4 configurable relays + 1 card fault relay
- 6 BNC raw outputs
- 4 analogue outputs (current/voltage)
- 2 front panel buttons for:
 - Card lock/unlock
 - Card reboot
 - Firmware recovery
- Ethernet port for communication with VibroSight
 - Configuration
 - Data visualization
- VME bus communication to CPUM^{MK2} card

Monitoring capabilities

VM600^{MK2} machinery protection and monitoring system



- Digital access to influence the protection side requires physical access to the rack
- Safe in terms of cyber security

Single channel processing functions

VM600^{MK2} machinery protection system

Processing functions	Protection outputs	Monitoring outputs
Bearing absolute vibration	2 time and 4 frequency domain measurements	Waveform, spectrum, 4 time and 6 frequency domain measurements
Shaft Relative Vibration		
Broad band pressure		
Position Shaft axial position Rotor position	1 position value	-
Shaft eccentricity	1 eccentricity value	-
Housing expansion Differential expansion Rotor expansion	1 expansion value	-
Quasi-static pressure	1 pressure value	-
Quasi-static temperature	1 temperature value	-
Speed	1 speed value	-

Dual channel processing functions

VM600^{MK2} machinery protection system

Processing functions	Protection outputs	Monitoring outputs
X-Y shaft relative vibration	1 Smax value	1 unfiltered and 6 filtered orbits, Full spectrum with 6 frequency domain measurements, Shaft centerline
Shaft absolute vibration	1 time domain measurement	Absolute spectrum and 6 frequency domain measurements
Differential housing expansion Rotor expansion Differential expansion	1 expansion value	-
Shaft axial position	1 position value	-
Mathematical function	1 result value	-
Delta Quasi-static Pressure	1 pressure value	-
Delta Quasi-static Temperature	1 temperature value	-

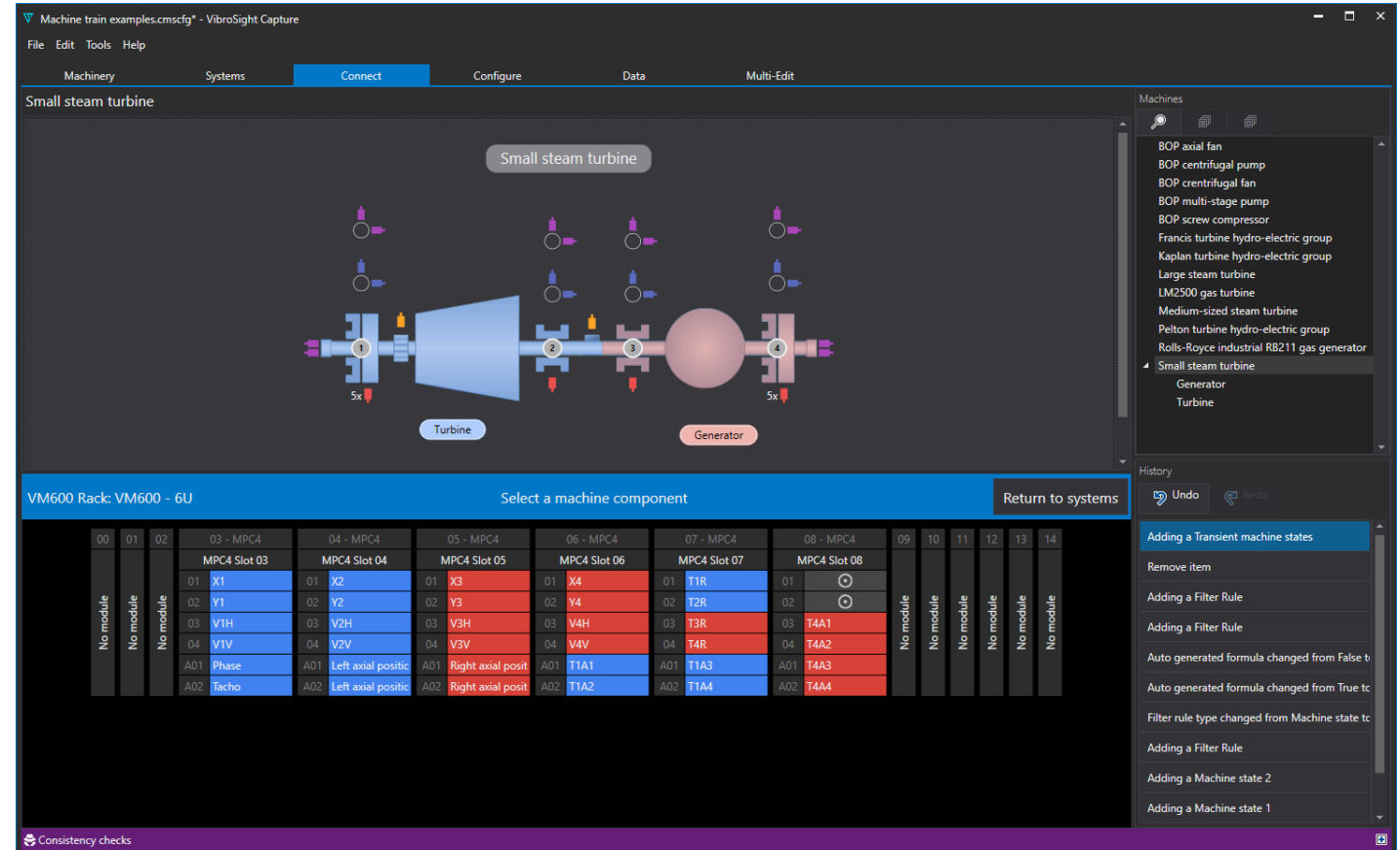
VM600MK2 LIVE DEMO

VibroSight condition monitoring solution

Live demo

- VibroSight Capture

- Machine train
- Import of Protect configuration
- Connection of input channels to the machine train
- Machine states
- Data logging
- Database management
- Data sharing



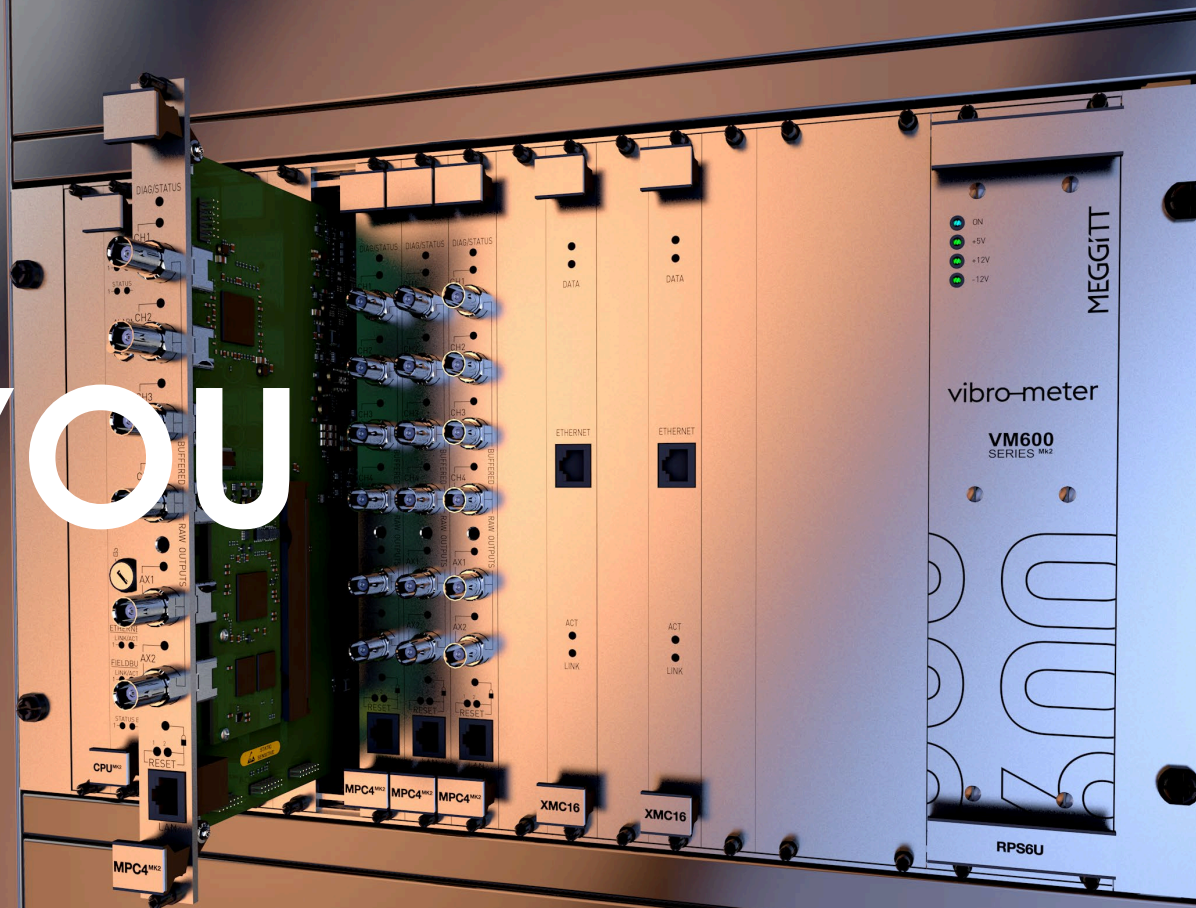
Q&A

Go to **www.menti.com** and use the code **7597 9887**

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THANK YOU



Product launch

presented by Alfonso Fernandez,
Product Owner

April 2022

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