

The 16<sup>th</sup> Annual PQSynergy™ International Conference and Exhibition

May 30th - 31st, 2016, Bangkok, Thailand



Solving customers' problems in harsh environment – power quality analysing and other test & measurement solutions

# Provide innovative solutions, to enable safety measurements of energy and electric infrastructure



# **Sonel Group**

- Sonel SA
- o Sonel Instruments India Private Limited
- Sonel China
- Foxytech





## **Measurement instruments**

- Multi-Function Electrical Installation Meter
- Insulation Resistance Testers
- Earth Resistance and Resistivity Meters
- Loop Impedance Meters
- RCD meters
- Thermal Imager
- Pyrometers
- Microohmeters
- Wire Tracers
- Luxmeters
- Power Quality Analyzer
- Portable Appliance Testers
- Clamp Meters
- Voltage and Continuity Testers







Power Quality Analyzer











# Our Sonel PQM analizers family received a Certificate of Conformity with IEC 61000-4-30 Class A given by Power Standards Lab



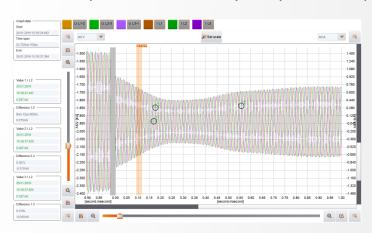
# **GPS** synchronised periodic waves

#### **Application:**

- Precision events identification
- Precision signals phase comparison
- Precision connection verification

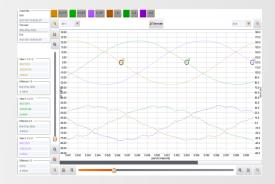
#### **Precision events identification**

Start two power drives and hydrodynamic coupling



#### **Precision signals phase comparision**

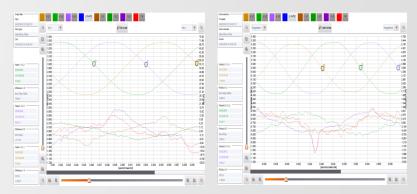
Power transformer 15 kV / 0.69 kV (Dy5)



#### **Precision connection verification**

At the same time: L2 -> L3 -> L1

compare to L1 -> L2 -> L3



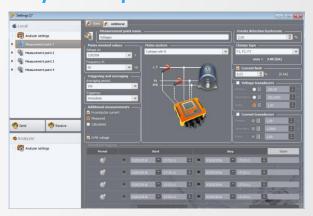


# **Power Quality Analyzer**

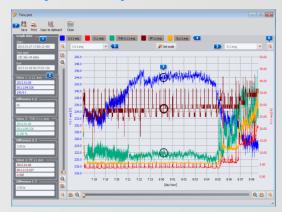
#### **Easy to connect**



#### Easy to set up



#### Easy to analyze



#### Innovative accessories: AutoISO, AGT, magnetic adapters, thread adapters















## Other T&M solutions









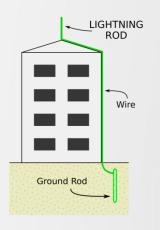




# MRU-200-GPS

Earth impedance meter with GPS









# UV-260

#### Corona camera



# MPU-1

Safety of works on pylons





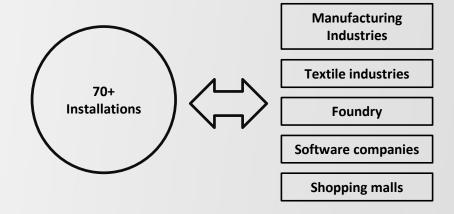


## **Installations in India**



10,000A+ of Active Harmonic filters 7000+ Kvar of passive filters

2000+ Kva of step down transformers





### **Production**





Our machine park:







### Reference









































