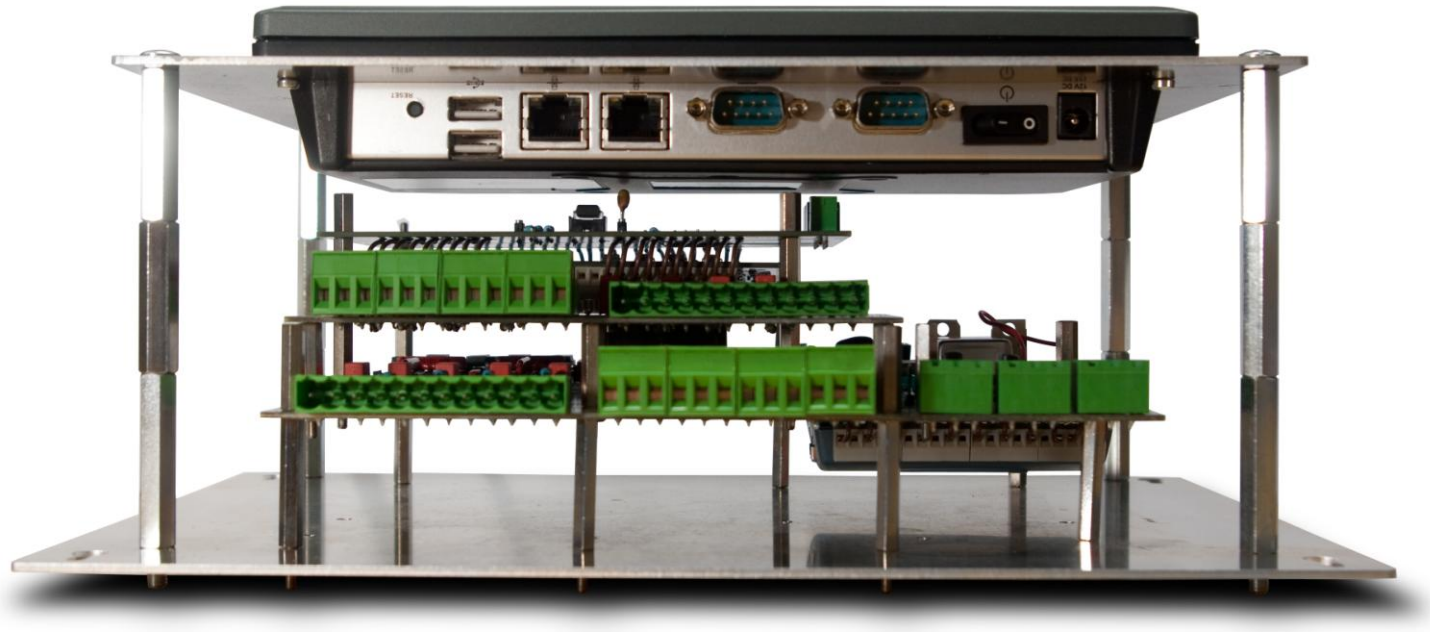
SYSTEM**REPORTER**PRIME



LAGGE®
TECHNOLOGIES

- **Cost-effective condition monitoring system for small application with up to 16 transducers, 16 relay outputs and 7 analog outputs.**
- **Very small footprint – can be installed in existing cabinets**
- **Alarms via SMS and/or email for maximal security**
- **Easy-to-use software displaying machine and alarm status**
- **OPC interface**

SYSTEM**REPORTER**PRIME is designed for smaller applications where a limited number of transducers are required, for example:

- Hydroelectric power stations
- Wind power stations
- Pump stations

TYPICAL APPLICATIONS

POWER STATIONS/ PUMPING STATIONS

Typical application with 2 or 3 guide bearings where proxy transducers are mounted in 90 degree angle at each bearing. The thrust is measured by mounting one proxy transducer in the Z direction. A pulse transducer gives the reference signal for calculating the unbalance. If required, accelerometers can be added to measure the forces affecting the brackets.

WIND POWER GENERATORS AND GEAR BOXES

By combining proxy transducers and accelerometers all upcoming failures that can occur in complex machinery can be detected.

PULP AND PAPER: REFINERS

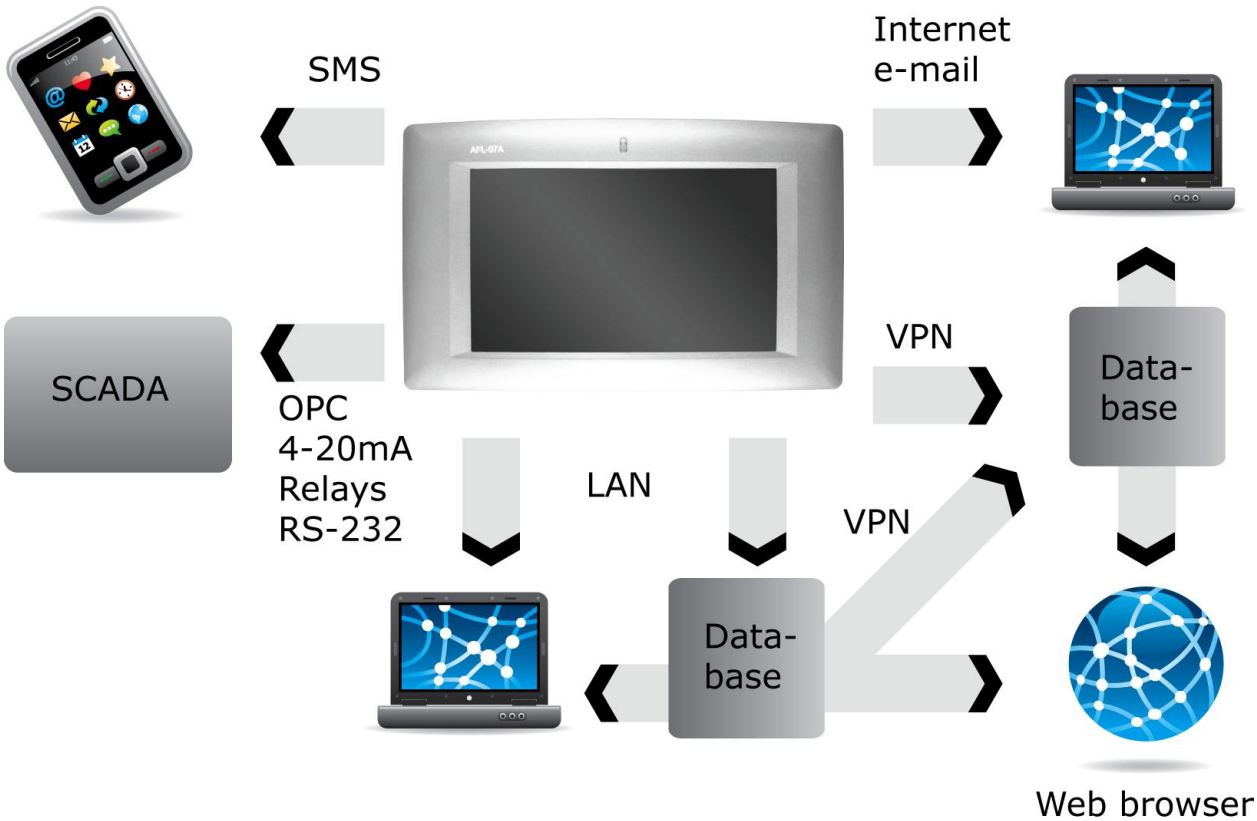
Ideal for surveillance of 2-4 refiners using up to 16 accelerometers.

PULP AND PAPER: SLOW ROTATING WASHERS AND PRESS ROLLS

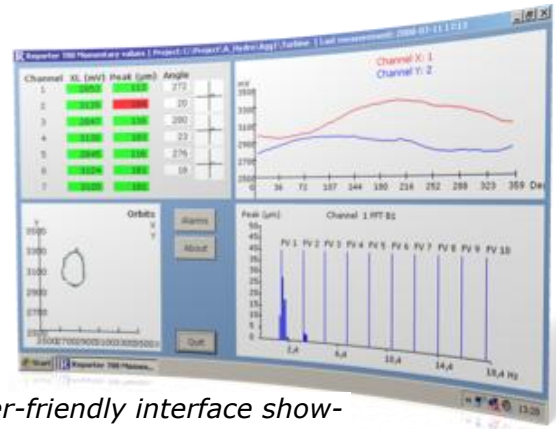
Proxy transducers are used to measure the distance in the nib incipient to detect bearing failure.

PULP AND PAPER: PRESS SECTIONS

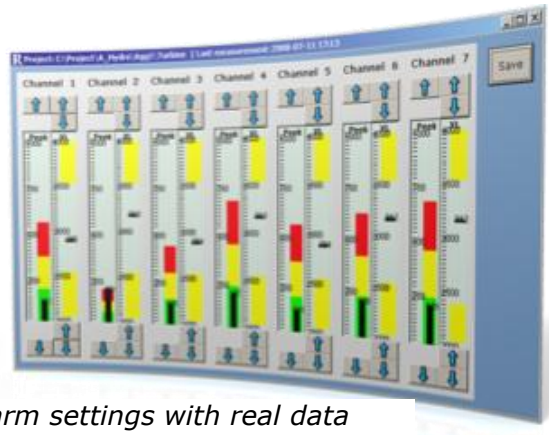
The high speed sampling allows surveillance of critical events that occur in a press section of a high speed paper machine.



System Reporter Prime connections overview.



User-friendly interface showing alarms and analysis data



Alarm settings with real data available.

CONNECTIVITY

ALARMS VIA SMS AND/OR EMAIL

The system contains functions for sending alarms as email and/or SMS maximizing security for vital parts of a plant and reducing the need of personnel on site.

ANALYSIS IN WEB BROWSER

The data generated by the measuring station are saved in a SQL database which can be replicated locally or to remote server (LAN or Internet). With the optional web server based analysis program, this allows analysis to be performed from any computer connected to Internet and a web browser.

OPC AND ANALOG OUT

Connection to SCADA via standard OPC is optional, as well as 4-20 mA analog outputs

SPECIFICATIONS

The system can be delivered for mounting in a standard 19" rack (5 U height) or e.g. stainless steel cabinet for wall mounting. Due to its small size the system can upon request be built into existing cabinets, for a highly cost effective solution.

BASIC SYSTEM

- 8 input channels for accelerometers, proxy (distance) transducers or 4-20 mA transducers (any combination possible)
  - Active 5th degree programmable filters for all input channels
  - 16 bit sampling resolution with successive approximation on all channels. The fast sampling allows sampling 0-10000 Hz, with adjustable ΔF
- 1 pulse transducer (PNP or NPN type)
- Fan-less Panel PC with 8" touch screen, Windows XP Embedded, 2x LAN (10/100), WLAN (802.11b/g), 2x RS 232, 2x USB (2.0) and Bluetooth

OPTIONS

1 8 additional input channels for accelerometers, proxy (distance) transducers or 4-20 mA transducers (details as for basic system)

2 3 relays 240V, fully configurable to any channels and levels
  - Latching or non-latching depending on configuration
  - One relay can be used as watchdog to indicate if measuring computer fails

OR

16 relay 24V, fully configurable to any channels and levels
  - Latching or non-latching depending on configuration
  - One relay can be used as watchdog to indicate if measuring computer fails
  - Individual relay status indicated by LED's
  - Loop time 30 s (configurable)

3 7 analog outputs 4-20 mA, fully configurable to transmit data from any channel

4 OPC output interface, fully configurable to transmit data from all channels or selected channels to SCADA system

5 Data analysis and reporting through web browser

6 Alarms and status reports through SMS or email

7 Replicate data from one or more systems to central database for simplified data access

8 Replicate central database over the internet

9 Replicate data from one or more systems to Lagge Technologies for analysis and reporting

System Reporter Measuring station

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