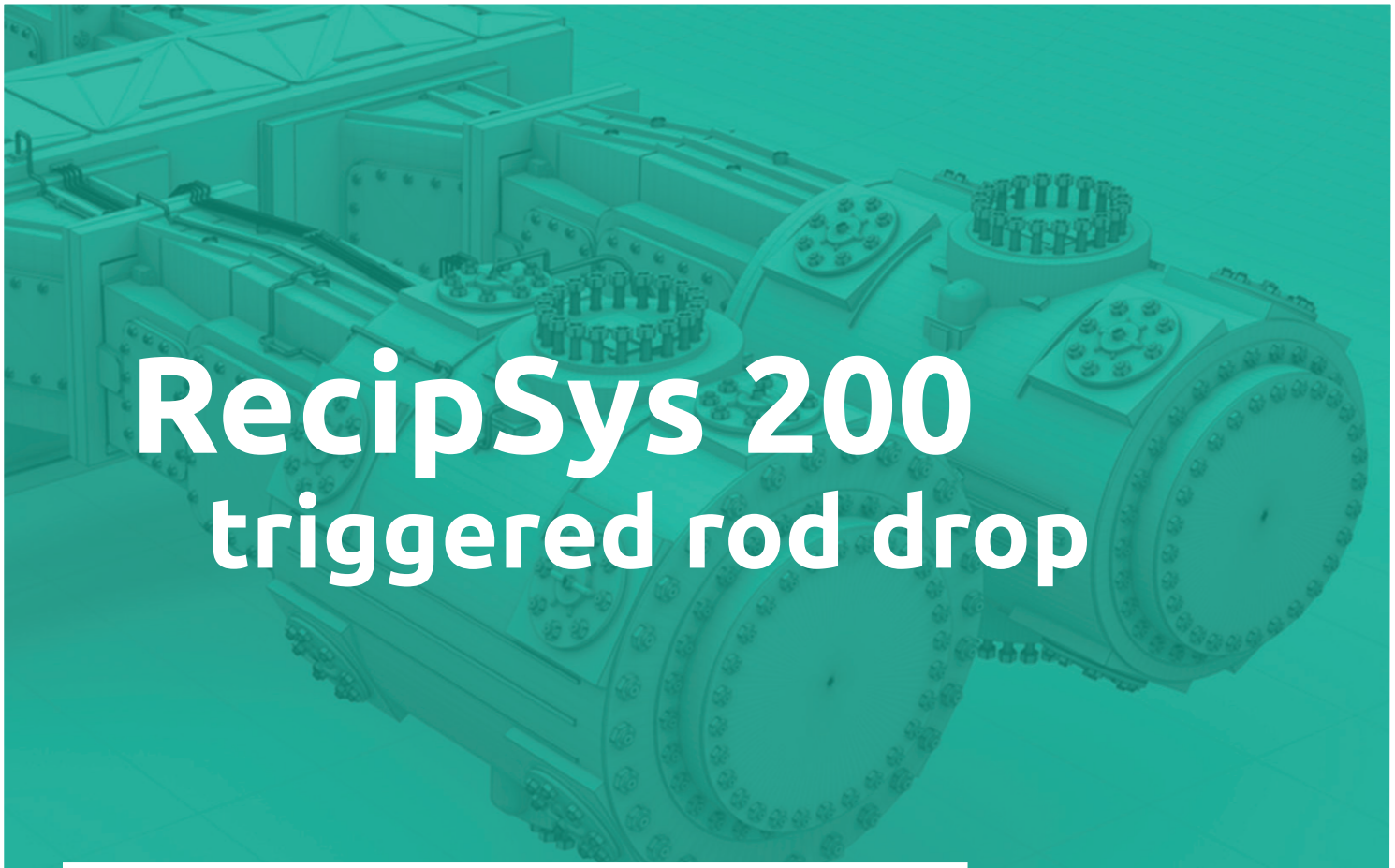


RecipSys 200
triggered rod drop

The RecipSys 200 is a triggered rod drop monitoring system that indicates the displacement of a piston inside a cylinder by measuring the rod displacement. The rod drop system provides crucial information on the wear of the rider bands and supports both monitoring and protection (alarm) functions.

IC istec International

RecipSys 200 triggered rod drop

It should not be necessary to shut down a reciprocating compressor just to measure normal wear on rider bands. The RecipSys 200 triggered rod drop module provides online rider band monitoring.

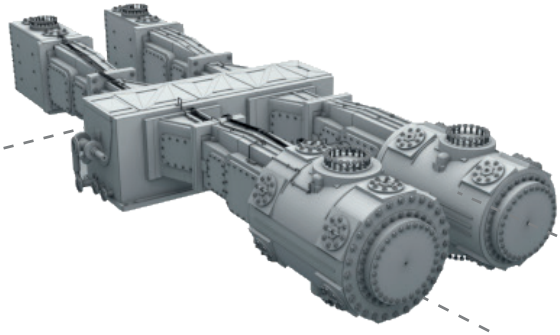
Features:

- Triggered rod drop monitoring system for highly accurate data on rider band wear
- Dual-channel for monitoring up to 2 cylinders, easily scalable by connecting multiple modules for 3 or more cylinder applications
- Stand-alone system or add-on for larger systems
- Suitable for all (proximity) sensor brands
- Integrable with other transmitter systems, including crosshead / casing vibration, impact and temperature
- Effective and user-friendly system layout
- Solutions for hazardous environments

Phase trigger

The position of the piston rod changes through the course of the cycle, influenced by external forces. To ensure accuracy of a rod drop measurement, the position should be measured at a specific point during the cycle. The RecipSys 200 uses a phase trigger to filter the rod displacement signal to the right phase angle.

Input & output signals



Trigger signal

Rod drop signal

Rod drop signal

INPUT

OUTPUT

2 x Raw signal

0...-20 Vdc raw signal output for external signal analysis with advanced monitoring systems.

3 x Relay

Two fully programmable alarm / switch relays and one relay for system / sensor check

2 x Analog

4...20 mA and 0...10 V outputs for data visualization on local display or DCS.

1 x Trigger signal

0...-20 Vdc trigger signal for linking multiple units in 3 or more cylinder applications.

5 reasons why RecipSys 200

There are 5 reasons the RecipSys 200 fits your reciprocating compressor for rod displacement measurements:

1. Essentiality

Rod displacement is a key mechanical indicator for reciprocating machinery, to detect and trend rider band wear. Since the position of the rod changes through the course of the cycle, a phase triggered measurement is required for an accurate and repeatable result.

2. Simplicity

The RecipSys 200 focusses on a single (mechanical) indicator and provides clear outputs, for direct alarms or further processing. It is easy to configure and simplifies the user experience for installation, maintenance and usability of the instrumentation.

3. Scalability

The transmitter based layout of the rod drop module offers excellent scalability to fit every monitoring need. Multiple modules can be connected to monitor 3 or more cylinders and other transmitter systems can be integrated.

4. Integrability

The RecipSys 200 can be used as stand-alone solution or as an add-on to existing monitoring equipment. The industry standard outputs can be used for integration in different systems such as PLC, SCADA, control systems or other advanced monitoring systems.

5. Cost-effective

The rod drop module is a simple and effective system to monitor key mechanical machine behaviour. The transmitter layout of the rod drop module is cost-effective and scalable to suit every monitoring need.

Why Istec?

High quality machine monitoring and protection starts with great products, but is defined by outstanding lifetime technical support. That's why we provide continuous high-end support and direct access to highly trained experts. Our products are more than just a one-time solution for your applications - we aim for an efficient synergy between high-quality solutions and lifetime product support.

We provide what is needed to create turn key solutions. We design custom cabinets and housings for different environments, use our own advanced tools to test and verify sensors and systems and support third-party products.

More than 40 years of practical experience enables us to offer great support for your specific application(s). This is attested by our installed base and highly certified experts in Functional Safety (TÜV), Vibration Condition Monitoring (ISO 18436-2 CAT IV) and ATEX applications.

"Our value is to offer outstanding technical support, accessible knowledge and a great service mentality".

Wouter Verschuren - Director Istec International

Contact

Do you have a question about our products or services? Feel free to contact us. Our specialists are ready to help you.

Phone

NL: +31(0)252 433 400

Mail

mail@istec.com

Website

www.istec.com

Offices

Lisse (NL)

Meer en Duin 8
2163 HA, Lisse

Geleen (NL)

Chemelot, Geleen
G001-016, Gate 7

Opoeteren (BE)

Zendelstraat 6
3680 Opoeteren