



Flowrox Scaling Watch™

know what happens inside your pipeline

Flowrox Scaling Watch™ is an accurate solution for online pipe scaling or fouling measurement. Online monitoring of process scaling allows you to set up an alarm system, which informs you if pipe volume reaches the set point.

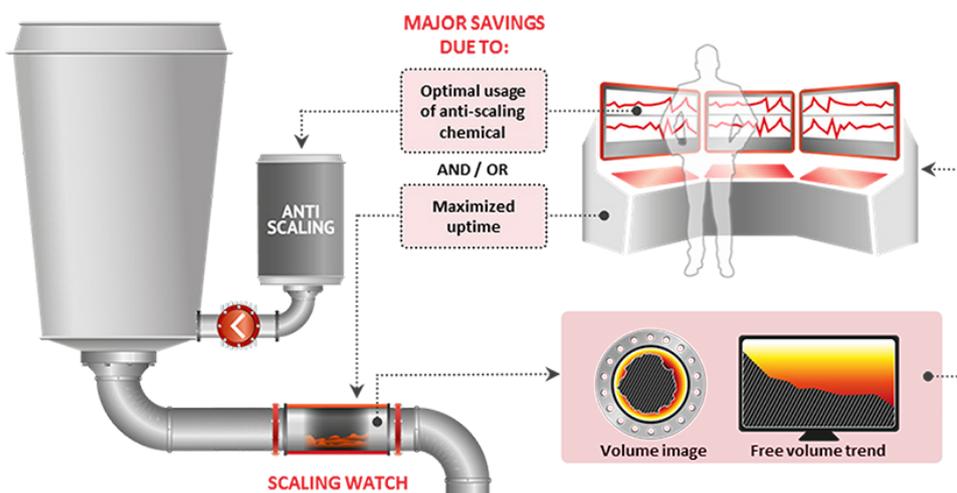
Integrate the system into plant automation to maintain an optimal level of antiscaling chemicals and to avoid unnecessary production stops caused by cleaning.



Features:

- Constant monitoring of the scale build-up
- Unique way to see inside your pipelines
- Tailormade sensors for your process

How Scaling Watch operates:



CUSTOMER BENEFITS

Maximized uptime



Improved performance



Predictive maintenance



Constant monitoring





Technical data

Pipe sensor	
Pipe sensor size	DN25 - DN500 1" - 20". Other sizes on request.
Pipe sensor materials	Pipe and electrodes (standard): Carbon steel, stainless steel 316L + equivalent electrodes Pipe and electrodes (special): e.g. Titanium + equivalent electrodes Other materials upon request Electrode insulations (standard): . PEEK plastic + O-rings in the electrode penetrators
Maximum pressure	16 bar 230 psi. Higher pressure ratings available on request.
IP-classification	IP65
Applied technology	Applied technology
Electronics	
AC power input	100-240V ~ 50/60 Hz
Control unit size and weight	300 x 400 x 210 mm (21 kg) 11,8 x 15,7 x 8,3 in (46.3 lbs.)
Cabin IP-classification	IP65
Power consumption	< 80W (DN50)
Communication interfaces and measurement	
Connection between sensor and cabin	Bus cable connection
Connection between cabin and DCS	mA- message (standard 4..20 mA connection) and Modbus + direct RJ45
Remote control	3G/4G or RJ45 (Ethernet cable) (NOTE: GSM via customer's local operator)
Trend	Free volume index [%]
Process conditions	
Process temperature range	0 - +90 °C +32- +194 °F. Higher temperatures on request.
Ambient temperature range	-20 - +80 °C -4- +176 °F



Scaling Watch pipe sensor



Scaling Watch electronics

