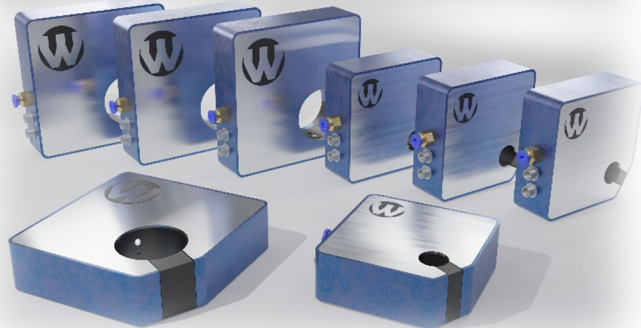


# WiSE Wire Surveillance Equipment



## Purpose

**WiSE** is wire monitoring system designed to continuously monitor the wire drawing process. It measures three signals, **vibrations**, **wire temperature** and **wire surface brightness**. The system both monitors and collects these signals.

**WiSE** consists of a server unit and one to ten sensor units.

**WiSE** can be used for (not exclusively):

- Live monitoring of the wire drawing process
- Activate alarms when the process is outside of user defined thresholds
- Optimization of the wire drawing process

WiSE Sensor type		WiSE	WiSE XL
Wire diameter range	Wire diameter	2 - 8 mm	8 – 19 (30) mm
<b>Performance</b>			
Measurements	3 values/signal is stored every second (15 datapoints/second)		
Vibrations	Sampling frequency	200 Hz	
Wire brightness	Sampling frequency	30 Hz	
	Number of cameras	3	
	Measurement range	0 – 254 a.u.	
	Repeatability	± 1%	
Wire temperature	Temperature range	0 – 350°C	
	Measurement accuracy	± 1°C	
<b>Environment and general data</b>			
Dimensions	Width x Length x Height	29 x 82 x 82 mm	29 x 108 x 108 mm
	Hole diameter	16 mm	39 mm
	Weight	220 g	300 g
Temperature	Operational temperature	0 - 40°C	
<b>Connections</b>			
Power		5 v 3 A	
	Connector type	USB C / Micro USB or without connector	
Dry compressed air	Input pressure	2-7 bar	
	Connector type	For 4 mm pneumatic hose	
Communications	Ethernet (optional)	Only to server	
	Wi-Fi (optional)	Only to server	

WiSE Server		
<b>Interface</b>		
GUI	Web based graphical user interface	
Data output	.csv file can be downloaded for every production run	
<b>Continuous digital output (optional)</b>		
	API	
	Possibilities to connect to PLC	
<b>Environment and general data</b>		
Dimensions	Width x Length x Height	115 x 55 x 100 mm
	Weight	700 g
Temperature	Operational temperature	0 - 40°C
<b>Connections</b>		
Power		12 v 3 A
	Connector type	DC-plug 5.5 x 2.1 mm
Communications	Wi-Fi (optional)	To sensors
		For PC to connect to GUI
	Ethernet (optional)	To sensor
		For PC to connect to GUI
		To internet for remote support

Schematic drawing of WiSE-sensor

