WiSE Wire Survellience Equimpent

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 at least one 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
Performance			
Measurements	3 values/signal is stored every second (15 datapoints/second per unit)		
Vibrations	Sampling frequency	200 Hz	
Wire brightness	Sampling frequency	30 Hz	
	Number of cameras	3	
	Measurement range	0 – 254 a.u.	
	Repeatability	± 5%	
Wire temperature	Temperature range	0 – 350°C	
	Measurement accuracy	± 2°C	
Environment and general data			
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	
Connections			
Power		From server	
	Connector type	GX16 6-pin	
Dry compressed air	Input pressure	2-7 bar	
	Connector type	For 4 mm pneumatic hose	
Communications	Ethernet	Only to server	
	Wi-Fi (optional)	Only to server	

WiSE Server		
Interface		
GUI	Web based graphical user interface	
Data output	.csv file can be downloaded for every production run	
Continuous digital output (optional)		
	API	
	Possibilities to connect to PLC	
Environment and general data		
Dimensions	Width x Length x Height	115 x 55 x 100 mm
	Weight	1000 g
Temperature	Operational temperature	0 - 40°C
Connections		
Power		9 – 30 v, minimum 36 w
	Connector type	DC-plug 5.5 x 2.1 mm
Communications	Wi-Fi (optional)	To sensors
		For PC to connect to GUI
	Ethernet	To sensors
		For PC to connect to GUI
		To internet for remote support

Schematic drawing of WiSE-sensor