
Metris
ANDRITZ Digital Solutions
ANDRITZ GROUP
METRIS VIBE QUOTATION SUPPORT
JULY- 2024
ANDRITZ
ENGINEERED SUCCESS

Content

1 PURPOSE

2 PACKAGES BASIC & CONNECT

3 NUMBER OF SENSORS PER MACHINE TYPE

4 NUMBER OF GATEWAYS REQUIRED

5 GATEWAY PLACEMENT OUTSIDE ATEX ZONE

6 DATA REQUIREMENT FOR NON-ANDRITZ EQUIPMENT

PURPOSE

- The purpose of this document is to provide additional quotation support for Metris Vibe projects

- In addition to this document, FB-AD is always ready to support directly
  Contact: fb-automation@andritz.com

PACKAGES

Basic & Connect

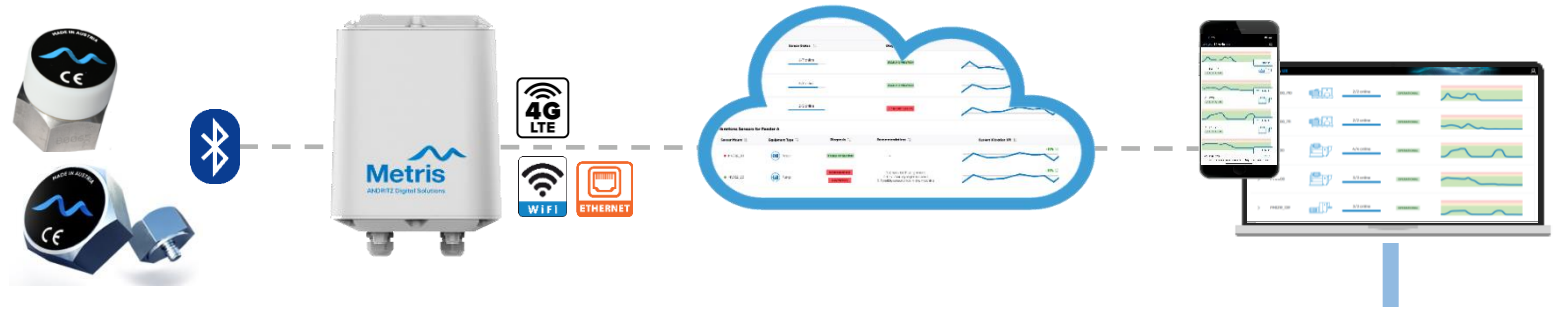
Both packages come with Condition monitoring WebUX as a Service subscription

Basic

- **Manual data collection** via Mobile App
  1. The user must go to the machine
  2. Connect with sensors via Metris Vibe App
  3. Download vibration data from the sensors

  (it is recommended to download data regularly)

Connect

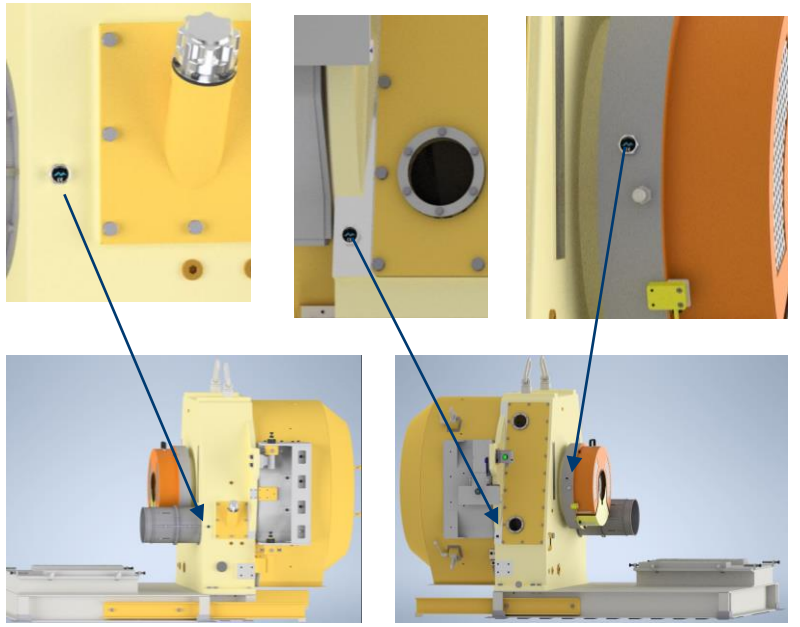


- **Inline data collection** via Bluetooth Gateways
  1. The vibration data is automatically collected from sensors and uploaded to the Metris Cloud Service

NUMBER OF SENSORS PER MACHINE TYPE

Machine_Model	# Main Sensors	Main Sensors Locations	# Optional Sensors	Optional SensorsLocations
Feedmax_G7 Feedmax_G9 Feedmax_G12 PM615W /XW	3	1.- Pinion_Shaft 2.- Main_Shaft_Rear 3.- Main_Bearing_Front	1	1.- Main_Motor_DE
PM30-5 PM30-6	3	1.- Pinion_Shaft 2.- Main_Shaft_Rear 3.- Main_Bearing_Front	1	1.- Main_Motor_DE
Paladin_800 Paladin_2000 Paladin_3000	5	1.- Pinion_Shaft_Left_DE 2.- Pinion_Shaft_Right_DE 3.- Main_Shaft_Rear	2	1.- Motor_Left_DE 2.- Motor_Right_DE
OPT500 OPT700 OPT900 OPT1201 MULTI630B MULTI800B MULTI1000B MULTI1400C	2	1.- Bearing_Front_NDE 2.- Bearing_Rear_DE	1	1.- Main_Motor_DE
FEX34	2	1.- Bearing_Housing_NDE 2.- Bearing_Housing_DE	1	1.- Main_Motor_DE
EX0618 EX0621 EX1021	2	1.- Bearing_Housing_DE 2.- Bearing_Housing_NDE	3	1.- Main_Motor_DE 2.- Feeder_Motor_DE (if incl.) 3.- Knife_Motor_DE
EX1250	4	1.- Main_Gear_DE 2 - Main_Gear_NDE 3.- Pinion_Shaft 4.- Screw_bearing	3	1.- Main_Motor_DE 2.- Feeder_Motor_DE 3.- Knife_Motor_DE
ExTS718	3	1.- Gearbox_NDE 2.- Gearbox_DE 3.- Gearbow_Center	3	1.- Main_Motor_DE 2.- Feeder_Motor_DE 3.- Knife_Motor_DE
ExTS616	3	1.- Gearbox_NDE 2.- Gearbox_DE 3.- Gearbow_Center	3	1.- Main_Motor_DE 2.- Feeder_Motor_DE 3.- Knife_Motor_DE

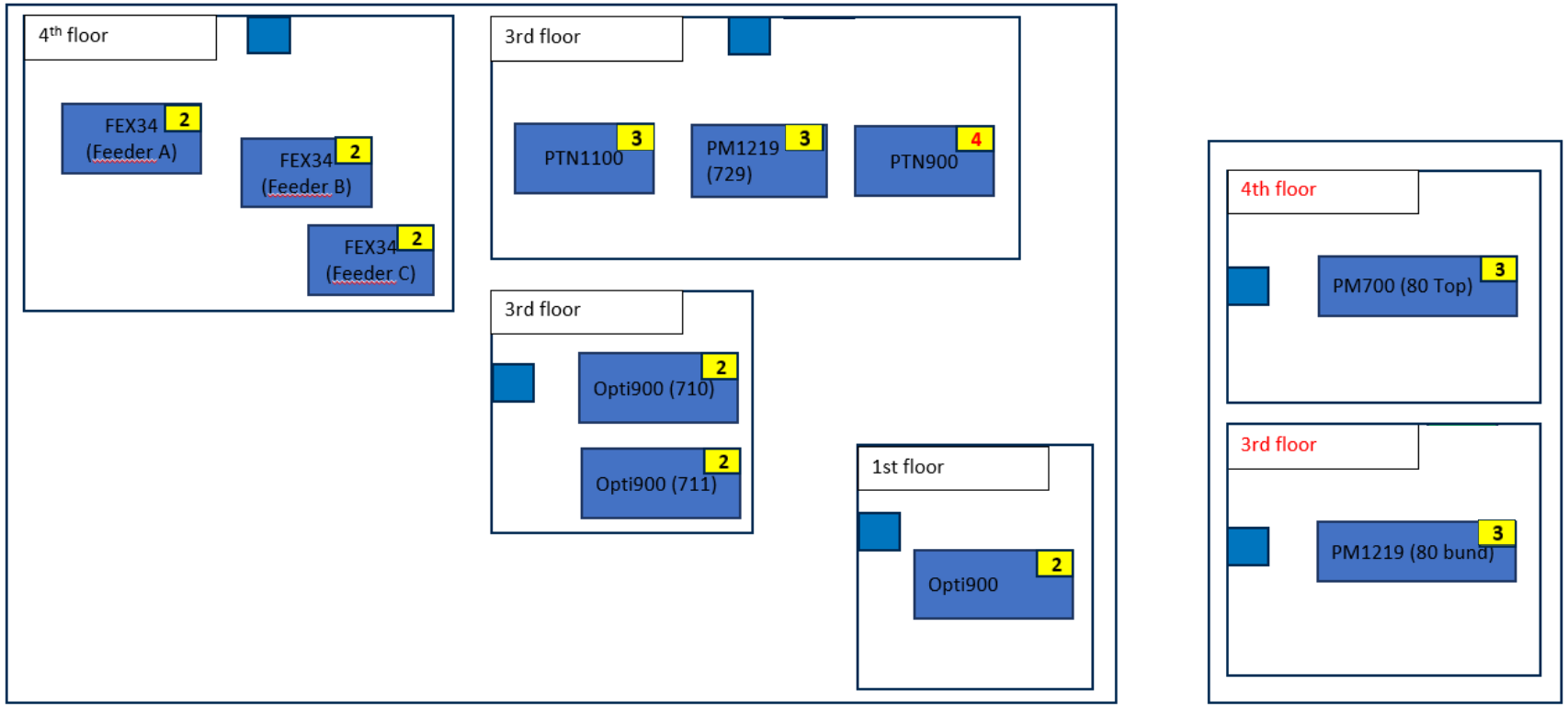
Example positioning on FeedMax



NUMBER OF GATEWAYS REQUIRED

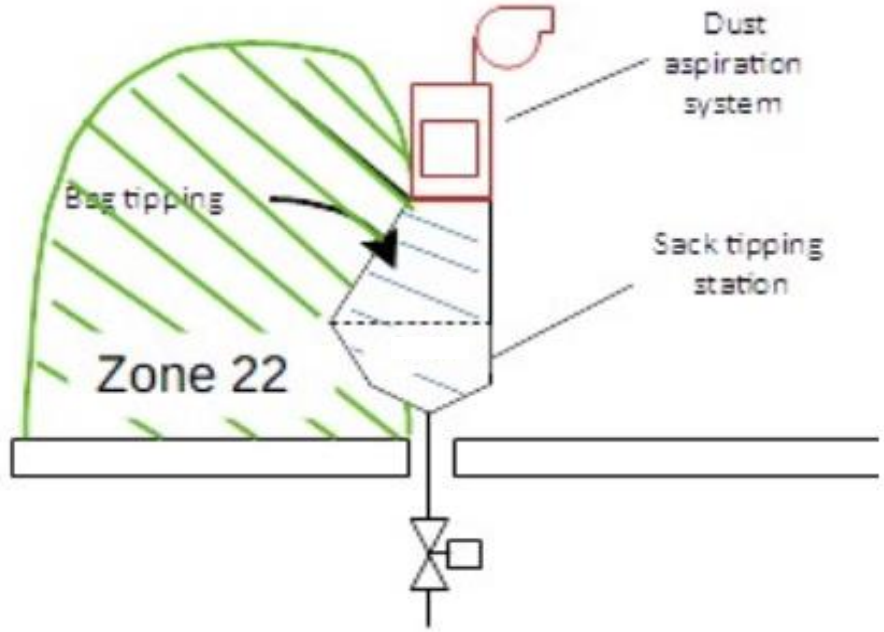
- One Gateway coverage is approx. 150 m^2 room (actual coverage depends on local conditions)
- Always include a Gateway for each room where the Equipment is installed
- Each Gateway connects with up to 20 Metris Vibe sensors
- The connectivity capabilities of the Sensors, **at perfect conditions**, is up to 40 meters

Example Installation (6 rooms with 6 gateways)



GATEWAY PLACEMENT OUTSIDE ATEX ZONE

Placement of the Bluetooth Gateway shall be outside of any ATEX Zones as the Gateway is <u>not</u> ATEX compliant



DATA REQUIREMENT FOR NON-ANDRITZ EQUIPMENT

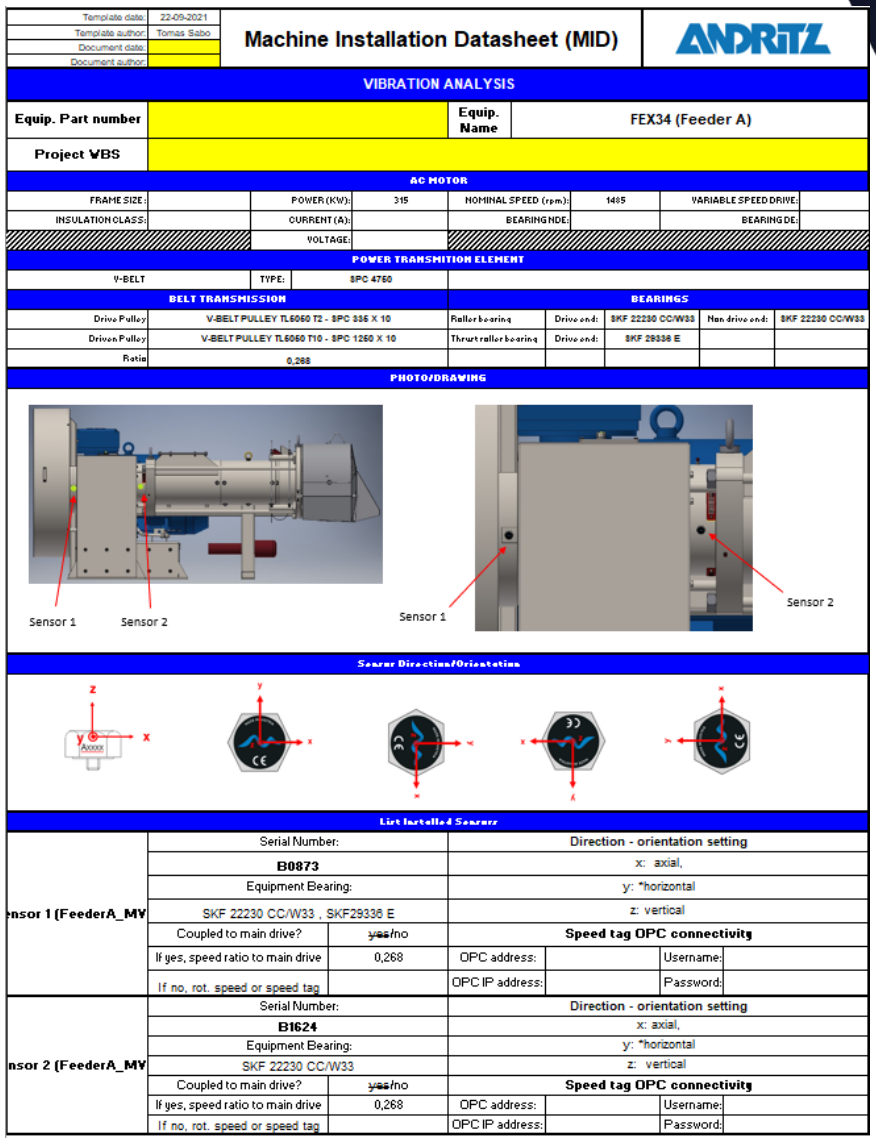
Metris
ANDRITZ Digital Solutions

Minimum requirements:

1. Main Motor speed
2. Execution type (Belt or Gear drive)
3. RPM of rotating shafts
    1. Can be measured with Tachometer
4. Photo of
    1. The Equipment from different angles
    2. The Machine plate
    3. The Motor plate

Note:

- Sensors and Gateways will be configured based on this required data
- Customer can supply the needed data or Andritz can provide a quote for a visit onsite to retrieve this data



Template date:	22-09-2021	Machine Installation Datasheet (MID)	ANDRITZ
Template author:	Tomas Sabo		
Document date:			
Document author:			

VIBRATION ANALYSIS

Equip. Part number		Equip. Name	FEX34 (Feeder A)
Project WBS			

AC MOTOR

FRAME SIZE:		POWER (KW):	315	NOMINAL SPEED (rpm):	1485	VARIABLE SPEED DRIVE:	
INSULATION CLASS:		CURRENT (A):		BEARING NDE:		BEARING DE:	
		VOLTAGE:					

POWER TRANSMITION ELEMENT

V-BELT	TYPE:	8PC 4750

BELT TRANSMISSION		BEARINGS				
Drive Pulley	V-BELT PULLEY TL6060 T2 - 8PC 335 X 10	Roller bearing	Drive end:	SKF 22230 CC/W33	Non drive end:	SKF 22230 CC/W33
Driven Pulley	V-BELT PULLEY TL6060 T10 - 8PC 1260 X 10	Thrust roller bearing	Drive end:	SKF 29336 E		
Ratio	0,268					

PHOTO/DRAWING

Sensor Direction/Orientation

List Installed Sensors

	Serial Number:		Direction - orientation setting			
nsor 1 (FeederA_MY	B0873		x: axial,			
	Equipment Bearing:		y: *horizontal			
	SKF 22230 CC/W33 , SKF29336 E		z: vertical			
	Coupled to main drive?	~~yes~~/no	Speed tag OPC connectivity			
	If yes, speed ratio to main drive	0,268	OPC address:		Username:	
	If no, rot. speed or speed tag		OPC IP address:		Password:	
	Serial Number:		Direction - orientation setting			
nsor 2 (FeederA_MY	B1624		x: axial,			
	Equipment Bearing:		y: *horizontal			
	SKF 22230 CC/W33		z: vertical			
	Coupled to main drive?	~~yes~~/no	Speed tag OPC connectivity			
	If yes, speed ratio to main drive	0,268	OPC address:		Username:	
	If no, rot. speed or speed tag		OPC IP address:		Password:	

LEGAL DISCLAIMER