



CASE STUDY

FARMERS GRAIN & FEED

4B Components Limited
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HAZARD MONITORING | 4B Monitoring Systems and Sensors Help to Deliver Full Automation



CHALLENGE

Having outgrown their original 100-year-old feed mill, Farmers Grain & Feed built an entirely new state-of-the-art facility. The new facility has 1 million bushels of storage capacity and 54 ingredient bins in the main structure.

Farmers Grain & Feed worked with Repete (a provider of automation control systems for animal nutrition, food and process industries) to create an optimized design that's fully automated and allowed them to double production. Efficiency and safety were top priority according to the team.

"Automation and technology are worth the cost up front," says Glenn Schellinger, Grain & Feed Manager. "This is a fully automated feed mill, from the ground up."

WHY 4B COMPONENTS LIMITED

4B was recommended and ultimately selected to provide all hazard monitoring sensors, bin level sensors and connectivity products. "When looking for sensors, 4B is one of the first names that overall comes up. Not only support staff, but technical materials and support online," says Steve Konrath, project manager.

For Schellinger, 36 years of experience has taught him technology is absolutely necessary, and he says one 4B component in particular stood out for him. "The IE-Nodes made it easier to wire and install them," he explains. "They made the electrician's life a lot easier."

Having 4B components as part of the build made installation and launch seamless, says Konrath: "Integrating all that equipment with our automation software went really well. We were basically at 100% in two weeks."

Out of sight, out of mind is the goal when it comes to technology for Farmers Grain & Feed. "I would recommend 4B. They're one of the best-known names," Konrath says.

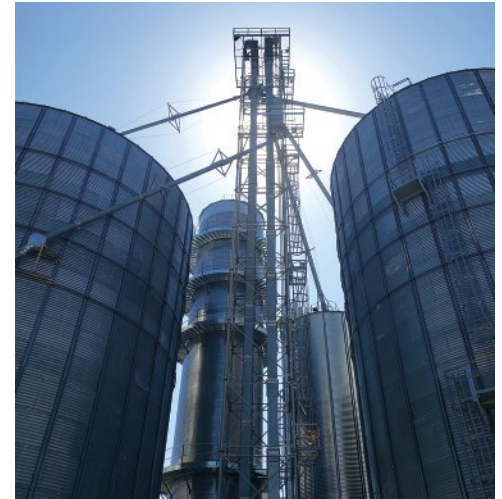
DETAILS

Location

Allenton, Wisconsin

Components

- IE-Nodes and IE-Switches
- ADB Series Bearing Temp Sensors
- Rub Block Belt Misalignment Sensors
- Milli-Speed 4-20 mA Sensors
- Whirligig® Speed Sensor Mounts
- Roto-Safe™ Bin Level Sensor
- Roto-Switch™ Bin Level Sensor
- WDA Slack Chain Sensor
- ABT4 Temperature Sensor Tester
- SpeedMaster Speed Sensor Tester



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Steve Konrath
Project Manager

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PROJECT PARTS LISTS

Part	Description	Quantity
ADB20V3C/D4	Adjustable Depth Bearing Sensor NTC 4" Probe	32
KIT-RUB-1	Rub Block with Inspection Door and NTC Sensor	32
MIL8001V4C	Milli-Speed Switch (4-20 mA)	8
WG1-4B-4	Whirligig 4 Pulse Per Rev	8
WDA3V34C	Watchdog M/A Sensor 12/24 VDC CSA	5
RLI1V6FCA	Roto-Switch 110/240 VAC / 24 VDC	60
RLISP3	Paddle SS 3 Vane 5" Diameter	60
TMP	Top Mounting Plate	60
RTS1V0C	Roto-Safe Level Indicator C2	20
RLISP2	Paddle SS Insertable Scimitar	20
SMP	Standard/Side Mounting Plate	20
ETH-NODE1V4C	Industrial Ethernet Node 24VDC power	16
ETH-NODE-AUXI-6AN	Industrial Ethernet Node Auxiliary 6 Input 4-20 mA Card	3
ETH-NODE-AUXI-6NTC	Industrial Ethernet Node Auxiliary 6 NTC Input Card	6
ETH-NODE-AUXSW-4P	Industrial Ethernet Node Auxiliary 5 Port (4 Usable) Switch	2
ETH-SWITCH1V4C-5P	Industrial Ethernet Switch, 5 Port (5 Usable), 24VDC	5
ADBT4	Adjustable Temperature Sensor Tester	1
SM2	SpeedMaster 2 with Pulse Pilot	1

PARTS PICTURES



IE-Node and IE-Switch



Whirligig® with MIL800 Sensor



ADB and WDA Sensors



Roto-Safe™ and Rotoswitch™ Sensors