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EAp
Authors
EAp-BH Björn Hallberg

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ROSEMOUNT 3408 WIRELESS LEVEL TRANSMITTER ANTENNA DIAGRAMS (WIHART)

This document describes the WirelessHART antennas used in the 3408 Wireless Level transmitter.

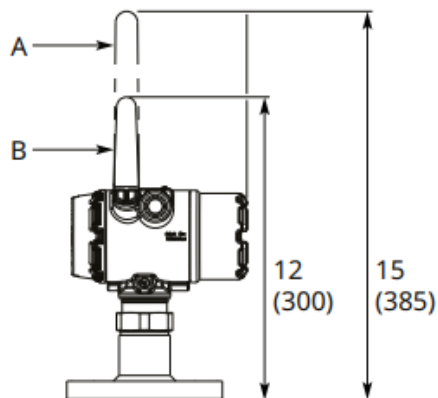
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1 WIHART ANTENNAS

There will be three types of antenna possible; two directly mount on the housing and one for remote mount.

Code	Gain	Filtered
WK	2 dBi	ANTENNA ASSEMBLY, 2.4GHz, WPT-WTT, w/Filter
WM	4.5 dBi	ANTENNA ASSEMBLY, 2.4GHz, HIGH GAIN, WPT-WTT, w/Filter
WN	8 dBi	HIGH GAIN REMOTE MOUNT ANTENNA KIT, 2.4 GHz DC GROUNDED, 8dBi, 25 FEET OF CABLE, L-BRACKET ASSY



- A. Extended range, external antenna (option WM)
- B. External antenna (option WK)
- C. Flange connection

Figure 1: WK and WM antennas

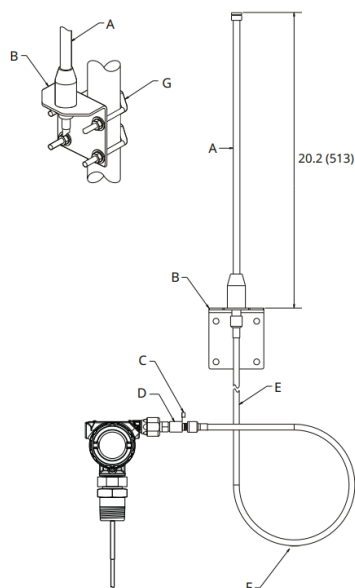
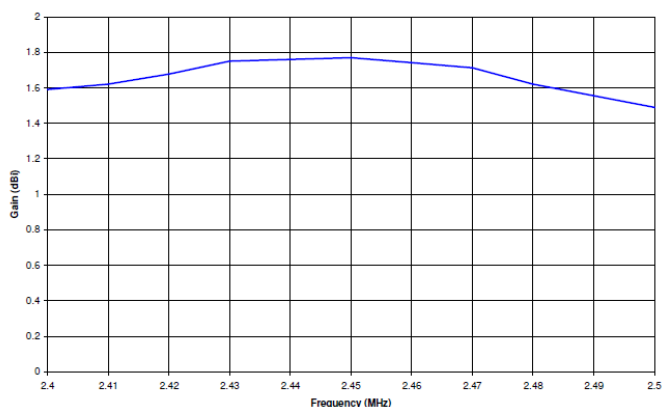


Figure 2: WN antenna (remote)

2 WIHART ANTENNA DIAGRAMS (TYPICAL)

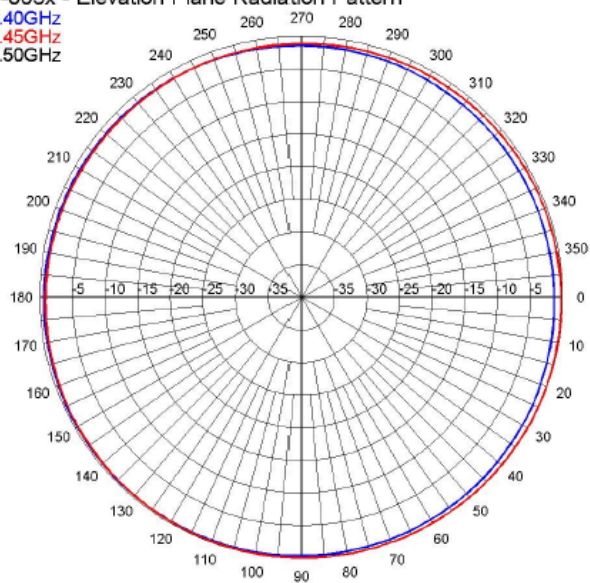
2.1 2 dB antenna (option WK)

00753-2035-003x Omnidirectional Antennas - Gain vs Frequency



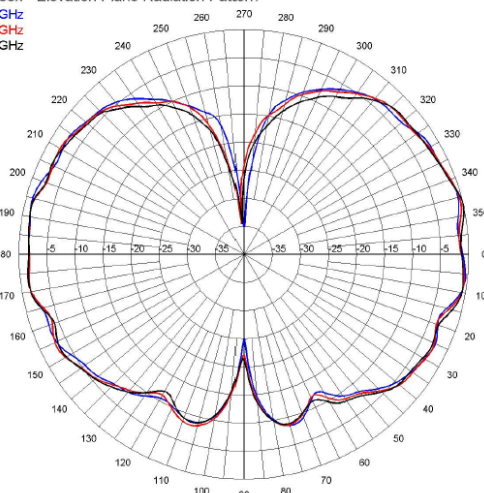
-003x - Elevation Plane Radiation Pattern

2.40GHz
2.45GHz
2.50GHz



-003x - Elevation Plane Radiation Pattern

2.40GHz
2.45GHz
2.50GHz



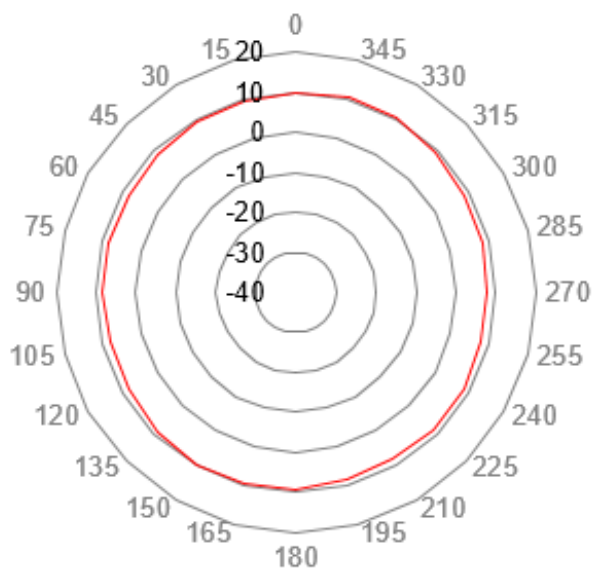
2.2 4.5 dB antenna (option WM)

(mid channel)

3D PATTERN DATA

Frequency (MHz)	2440
Ant. Port Input Pwr. (dBm)	7.05
Tot. Rad. Pwr. (dBm)	6.31
Peak EIRP (dBm)	10.75
Directivity (dBi)	4.43
Efficiency (dB)	-0.74
Efficiency (%)	84.39
Gain (dBi)	3.70
Average Gain (dB)	-0.74
E-Plane 3 dB BW (°)	51.00

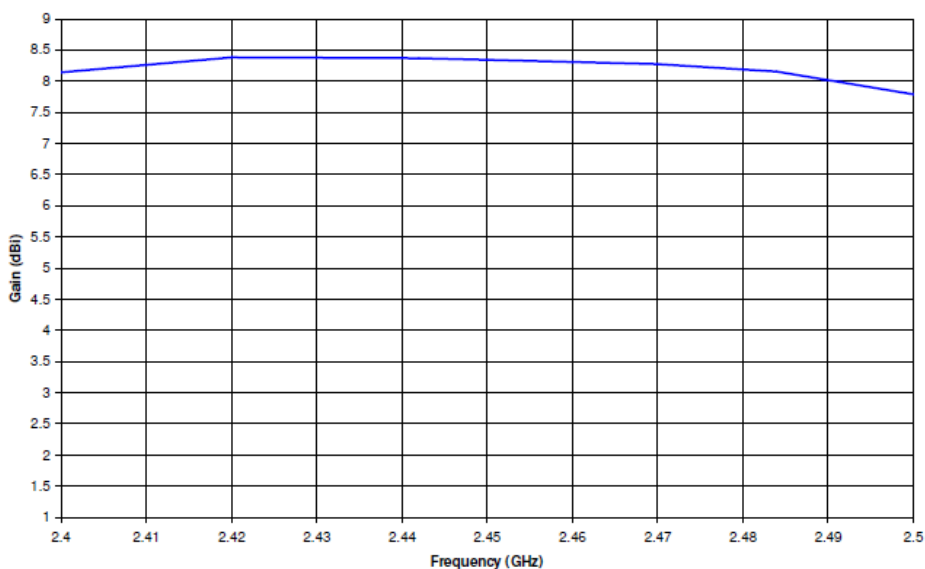
Total



(azimuth)

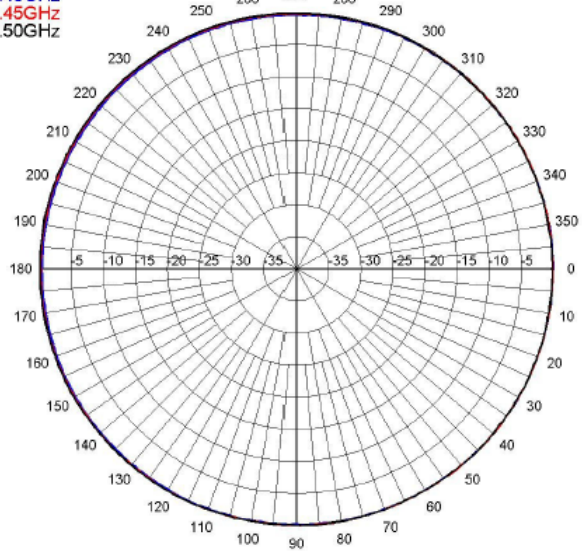
2.3 8 dB remote antenna (option WN)

MAXRAD MFB24008 Antenna - Gain vs Frequency



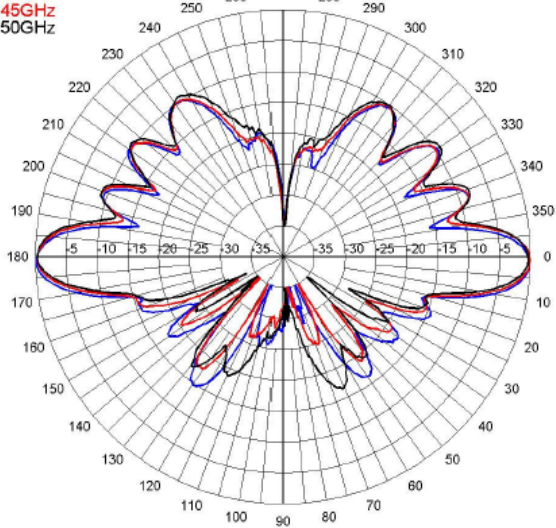
MFB24008 - Azimuth Plane Radiation Pattern

2.40GHz
2.45GHz
2.50GHz



MFB24008 - Elevation Plane Radiation Pattern

2.40GHz
2.45GHz
2.50GHz





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3 REVISION HISTORY

ISSUE	DATE	AUTHOR	MODIFICATION
1.0	2025-07-10	EAp-BH	Initial Release