

Omni-ID® Power 400/415

The Omni-ID Power 400 and Power 415 are rugged active tags capable of tremendous performance while tracking assets in the harshest of environments. Available in 2 protocols, the Power 400 uses a proprietary Omni-ID protocol and the Power 415 the IEEE protocol. Both active tags are over-molded for maximum durability with radio communications that penetrate snow/moisture and provide exceptional distance.



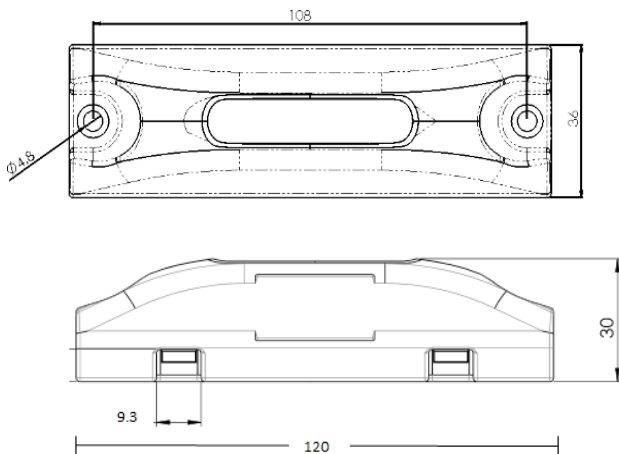
Applications

Omni-ID Power 400 and 415 are ideal for applications requiring long range asset tracking, particularly in harsh environments such as:

- ▶ Manufacturing: Mobile carts, containers and trolleys
- ▶ Logistics: Lay down yards, vehicles and docks
- ▶ Construction: Staging and materials tagging

Physical Specifications

Size (mm)	120 × 36 × 30
Size (in)	4.72 × 1.42 × 1.18
Weight (g)	92



Dimensions stated in mm. Dimensions apply to both Power 400 and Power 415.

Dual Radio

Active

Passive

Battery Power 400/415 Power 400-X/415-X	Up to 5 yrs Up to 4 yrs	Not required
Frequency Range	433 MHz	860 – 930 MHz
Read Range ¹	up to 400m	3 - 6m
RFID Protocol Power 400 Power 415	Omni-ID proprietary IEEE 802.15.4	EPC Gen2 passive tag for configuration, payload specification and firmware upgrade

¹Read distance can vary based on site characteristics, base station antenna type, height distance and tag configuration.

²Outdoor installation typical power settings shown.

Optimal environments can significantly enhance performance.

Environmental Specifications

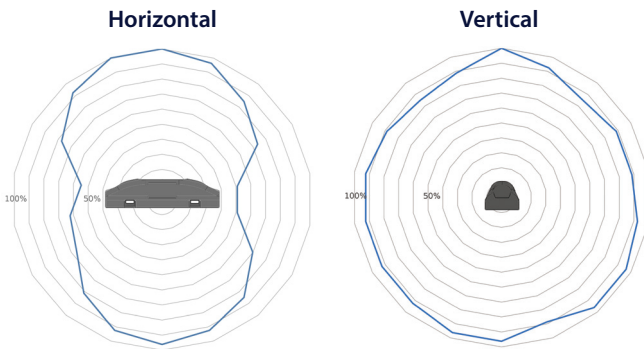
Operating Temperature	-40°C to +60°C
IP Rating	IP68 Nema PW12 (high pressure liquids immersion)
Shock and Vibration	IK07 4' drop to concrete MIL-STD-810G
Attachment	Screw attachment with two #8 screws 5mm (0.2") Cable tie slots each end
Colors and Labeling	Gray is standard with custom color options Yellow is available for ATEX/IECE Can be source encoded and labeled
Warranty	1 year

Powerful Features:

- ▶ **Long Battery Life** — Battery lasts up to 5 years under typical use cases
- ▶ **Integrated Passive Tag** — Track and commission with standard readers
- ▶ **Exceptional Toughness** — Fully sealed and over molded for the most rugged use.
- ▶ **High Gain Internal Antenna**— Exceptional range and performance in snow, ice or mud.



Radiation Pattern



Ordering Information

Order Numbers: OMNI-P400
OMNI-P415

Options: X:317 (ATEX/IECEx Certification)
:701 Standard Service Bureau

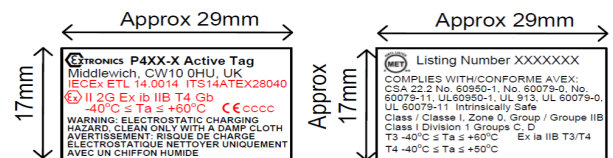
Minimum order quantities apply.

Certifications EN55022 Class A, EN50082-2
RoHS, IECEx, ATEX, CE
FCC Class A digital device according to FCC Part 15



Related Products

Product Names	Description
Link Network Gateway	Intelligent Transceiver Station, Ethernet, 24V power, enabling the relay of key data points back to the central server.
Link Mobile Gateway	A radio module enabling wireless connectivity and conversation between the tags and system.



IECEx Certification Laser Marking on the side of the tag

Omni-ID office locations: US | UK | China | India | Germany
For product or technology inquiries email: sales@omni-id.com