

Application Notes

Rev. 8/07/09

BAPI offers three weatherproof enclosure styles for duct, immersion and outdoor sensors. They are the Weatherproof Enclosure (**WP**) which is commonly referred to as a “Bell Box”, the Weather Tight Enclosure (**EU**) and the BAPI-Box Enclosure (**BB**).

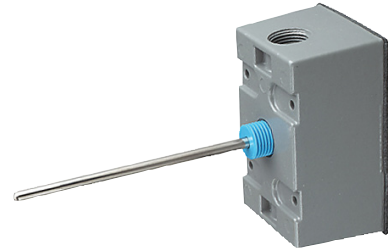
Weatherproof Enclosure (Commonly Referred to as a “Bell Box”)

BAPI’s Weatherproof Enclosure (WP) carries a NEMA 3R rating which is equivalent to an IP14 rating.

NEMA 3R: Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow; and that will be undamaged by the external formation of ice on the enclosure.

IP14: Protected against solid foreign objects greater than 50mm diameter and protected against spashing water.

Note: The Weatherproof Enclosure is not watertight and may fill with water. Weatherproof Enclosures that will be subjected to driving rain, sprinkler systems or jets of water from wash-down operation may need a 3/16” weep hole drilled in the lowest horizontal face of the box.



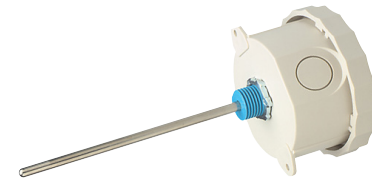
Weatherproof Enclosure (WP)

BAPI Weather Tight, BAPI-Box and BAPI-Box 2 Enclosures

BAPI’s Weather Tight (EU), BAPI-Box (BB) and BAPI-Box 2 enclosures are watertight and carry an IP66 rating which is equivalent to a NEMA 4X rating.

IP66: Dust tight and protected against powerful water jets from any direction.

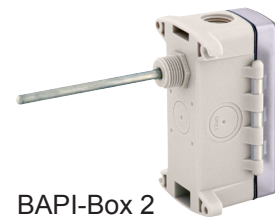
NEMA 4X: Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water; and corrosion; and that will be undamaged by the external formation of ice on the enclosure.



Weather Tight Enclosure (EU)



BAPI-Box Enclosure (BB)



BAPI-Box 2 Enclosure (BB2)

Note: For more information about NEMA and IEC enclosure ratings see BAPI’s application note [NEMA Enclosure Ratings](#) and [IEC Enclosure Ratings](#).