

InsuLogix® RFM OVERPRESSURE NOTIFICATION FOR ALL RENEWABLE DISTRIBUTION TRANSFORMERS

Distribution transformers in renewable applications are subject to unique stresses from high load and temperature variations, power quality issues, and frequent fault conditions. These factors often result in significant gas generation indicating developing or active thermal faults. Quick developing gas pressure may signal an internally failed transformer and could be a safety risk to personnel and a hazard to adjacent assets.

Crews and site operators need to know when pressure quickly develops so that action can be taken prior to possible failures. A clearly visible external indication is needed for:

- Improved crew safety
- Avoiding costly outages and downtime
- Avoiding tank ruptures and spills
- Preventative maintenance

SOLUTION

InsuLogix® RFM is the latest technology to detect faults inside distribution transformers. The RFM is two devices in one:

- Pressure Relief Device (PRD) set to vent the transformer's headspace to the atmosphere when pressure reaches a certain point
- Visual Flag Indicator and micro-contact set to activate at certain pressure

The InsuLogix® RFM is a low-cost solution that easily installs in minutes on transformers and replaces the transformer's PRD.

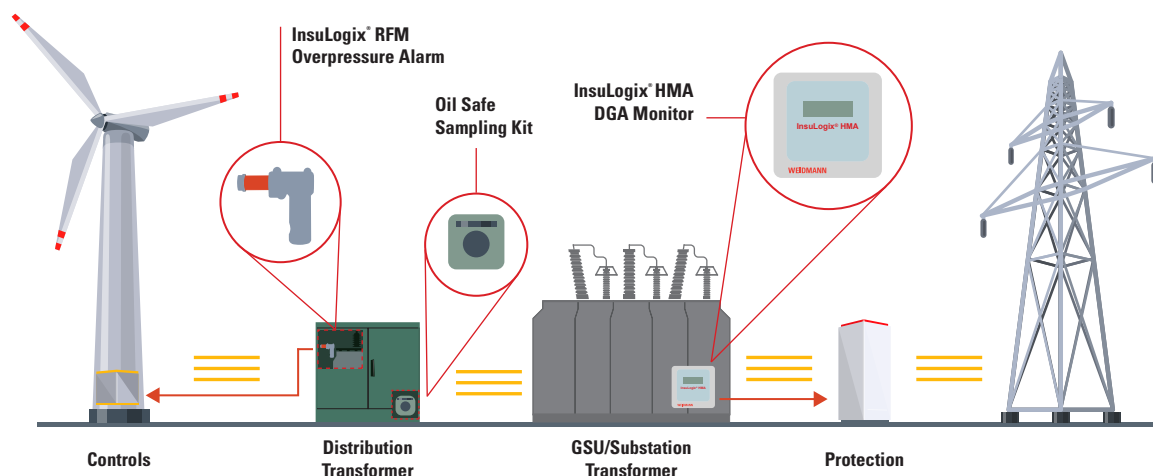


Patented InsuLogix® RFM Overpressure Indicator

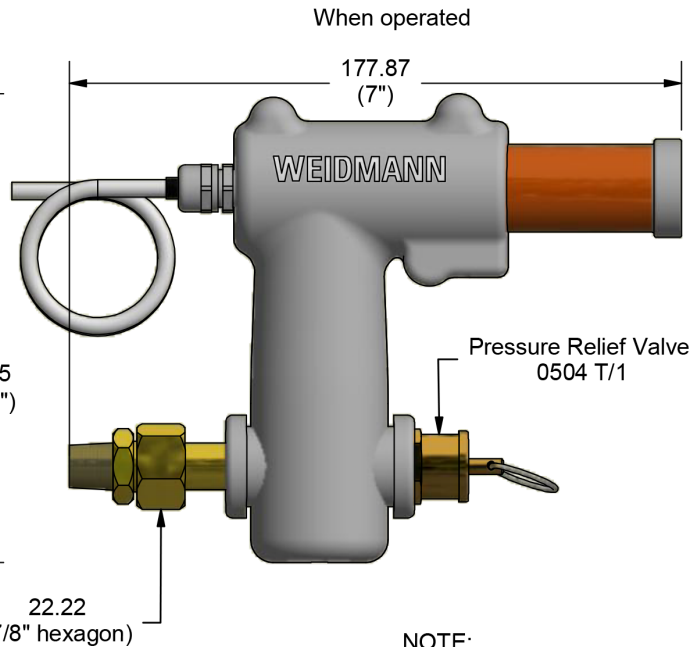
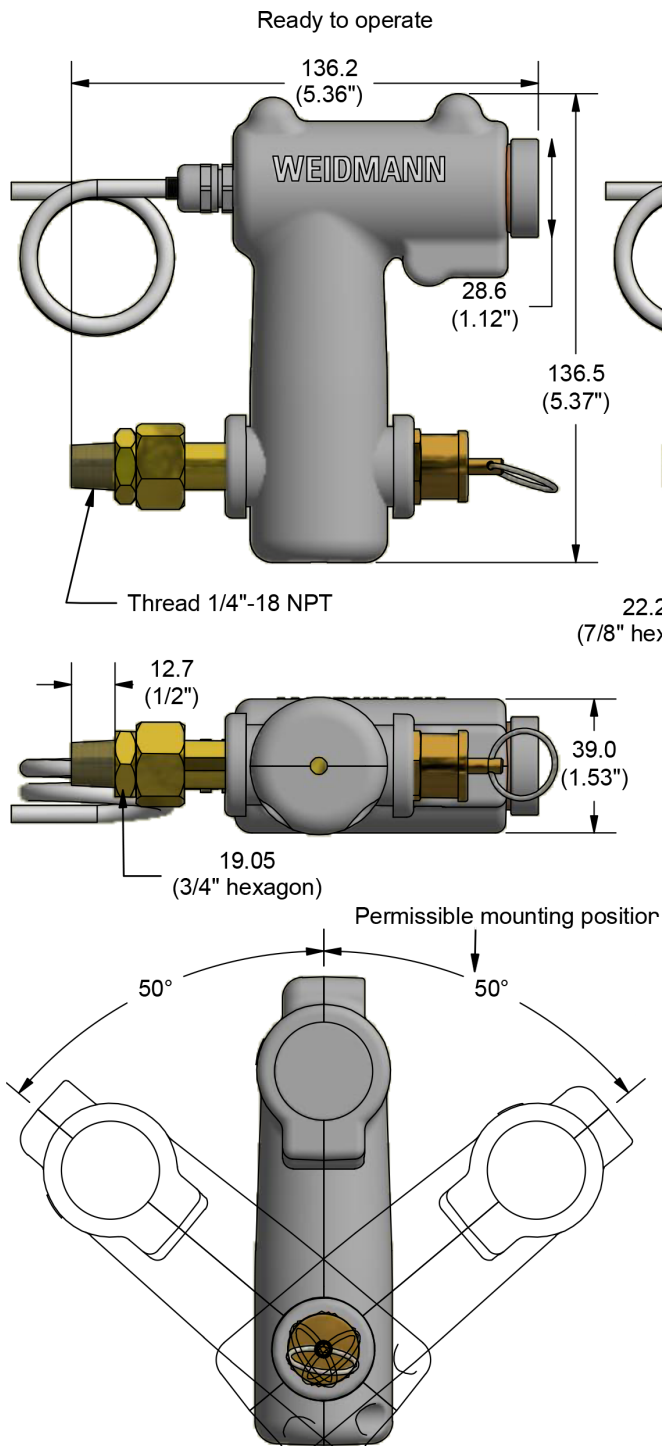
The InsuLogix® RFM's micro-contact can be connected to the wind turbine or solar inverter controls and sensor data acquisition system to provide a safe indication outside the transformer cabinet. This feature gives site operators a remote alert to tank overpressure events on the project site and allows them the opportunity to take action.

The micro-contact can also be connected to terminals installed in the InsuLogix SSK Safe Sample Kit, providing a safe and convenient method for testing for an overpressure event prior to opening the cabinet.

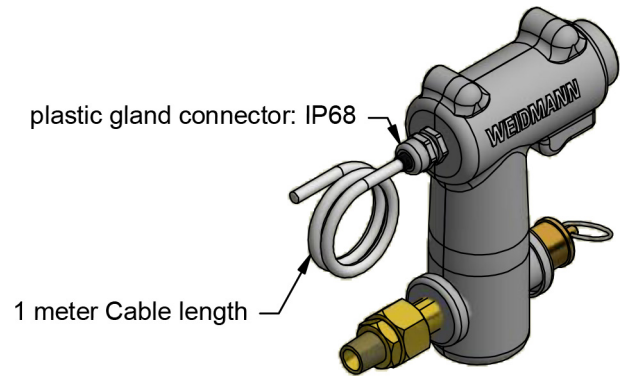
By simply installing the InsuLogix® RFM technology on every transformer the Operations and Maintenance (O&M) crews can schedule the necessary intervention earlier, thus reducing O&M costs while improving the project uptime performance.



InsuLogix® RFM Overpressure Indicator mounted on distribution transformer, along with other Weidmann devices designed for renewable transformers application: Oil Safe Sampling Kit and InsuLogix® HMA (H₂, H₂O, C₂H₂).



NOTE:
The internal switch closes when the RFM operates



SPECIFICATIONS

		Pad Mount
Operating Pressures	Flag Activation	12.5 ± 1 PSI
	Pressure Relief Valve	10.0 +1.0 -0.0
	Operating Temperature	-40 °C to 60 °C
	Storage Temperature	-40 °C to 60 °C
	Permissible Mounting Position	50 °
Weight	0.395 kg/0.87 lb	
Use	Outdoor – thermoplastic, flame retardant with UV protection	
Control Switch (optional)	2 Cond/22 AWG Shielded 0.25A @ 175 VDC 0.18A @ 120 VAC	

Rev: 10.22