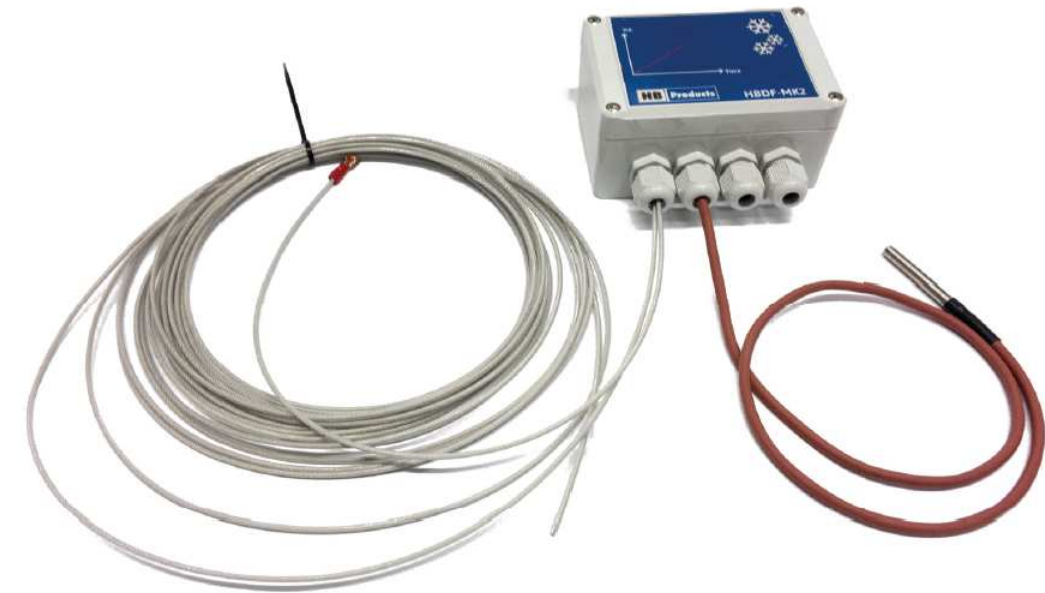
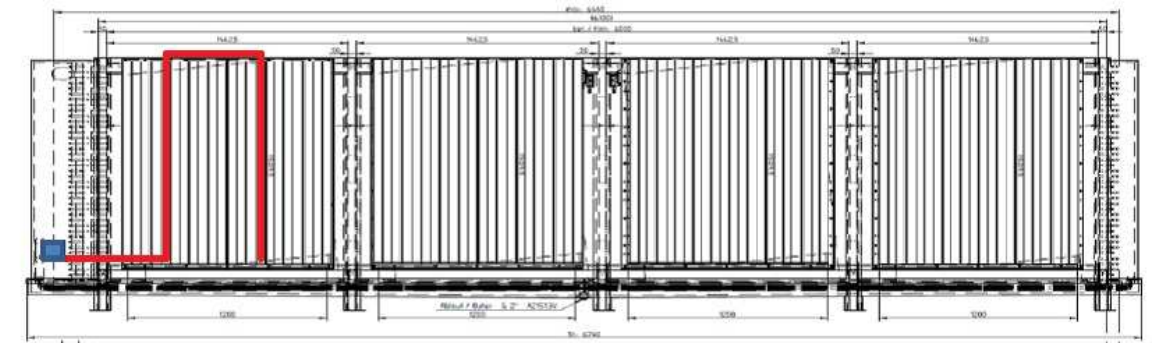


Quick Guide HBDF-MK2 Defrost Sensor Defrost on demand

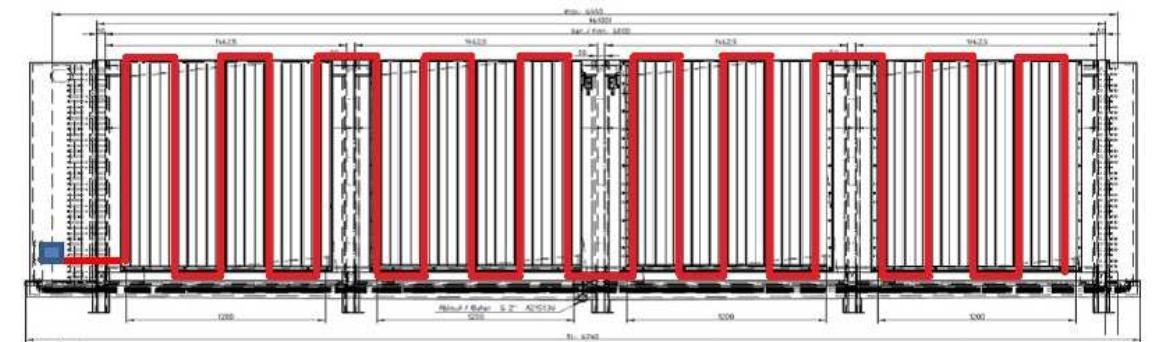


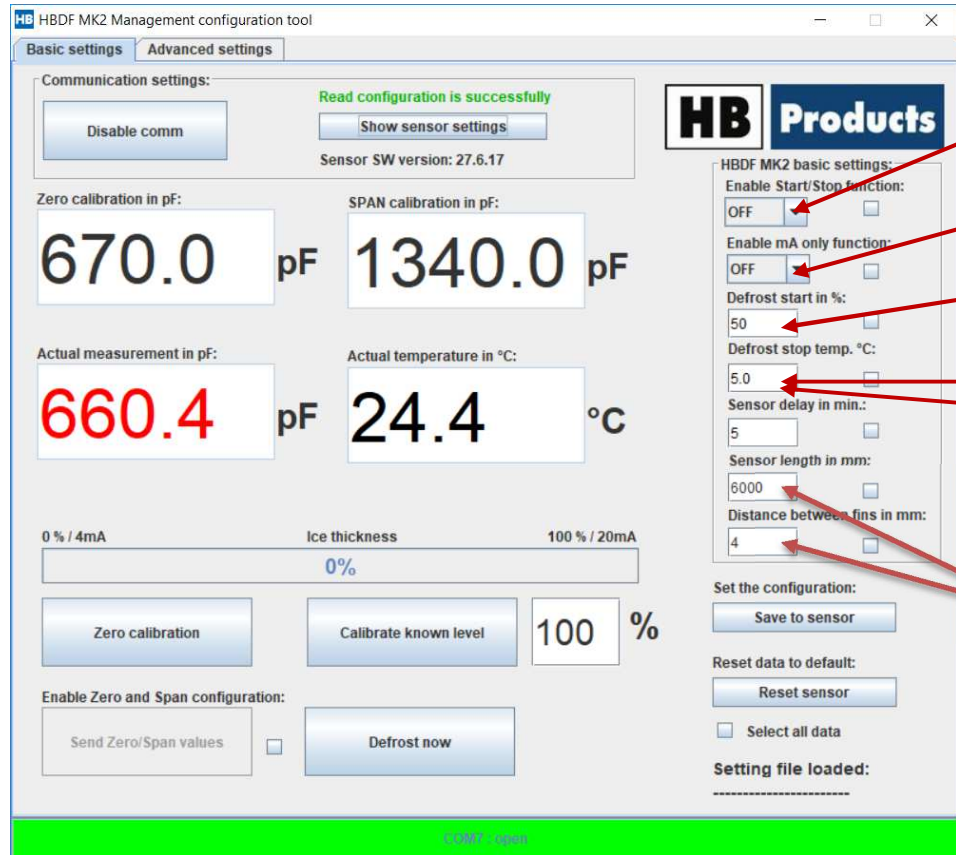
For installation on air-coolers/evaporators:

A



B





- Enable start / stop input, set to ON
- Disable relay out
- Start defrost, 50% = 1.5mm
- Defrost stop temperatur
- Frost mode delay
- Simple calibration, only use these two parameters.

Simple set-up, only two parameters and execution of a zero/start point with frozen/dry evaporator surface (surface with thin layer of frozen ice as after defrost is the optimal start point). The length of the wire entered is only the wire between the fins, and not the free wire in the bending.

- Type in sensor length in mm.
- Type in fins distance in mm.
- Perform a zero calibration with dry/frozen evaporator surface.

Advanced Calibration:

The calibration should be carried out before ice begins to build up. When the evaporator is free of ice, the sensor emits 4mA. Depending on the ice build-up, the sensor emits up to 20mA or 18mA (when set to mA only mode). A visual inspection must be carried out to determine when defrost should be performed, and the system's defrost control (PLC) should be set to perform defrost at that given signal level (for example 12 mA). Defrost must be stopped when outside coil temperature is above 5 to 10°C. After fan delay where remaining water droplets from the melted frost is frozen to the surface of the evaporator, here the signal is 4 to 5mA indicating clean evaporator without ice.

The built-in relays can be used to activate simple defrost control or digital input to an external defrost controller (Replace a timer)

