

# Moisture Alarm Band 25/3 Cu

Moisture Alarm Band 25/3 Cu is a part of the *Wideco Security System* which is a complete moisture monitoring system for insulated pipelines with alarm units from the simplest measuring box to units for advanced communication with a central computer via telephone network, GSM telephone, signal cables or Ethernet.

**The Moisture Alarm Band 25/3 Cu can be used for the detection of moisture / water in district heating pipes, district cooling pipes, insulated piping in district heating chambers, rock shelters, cellars, warehouses, computer flooring etc., or wherever there is a possibility of water damage.**

The Mobilarm moisture band is of stockinet-knitted polyester in which three parallel un-insulated wires of soft annealed copper are woven. The diameter of the wire is 0.66 mm and has a resistance of approx. 5.2  $\Omega$  / 100 m wire.

In order to detect the presence of moisture / water the alarm wires of the band must be connected to one of our measuring units. The moisture alarm limits (the moisture resistance of the band when the unit is activated) can be pre-set over a wide range and in the case of a high pre-set alarm limit very small amounts of moisture can be detected.

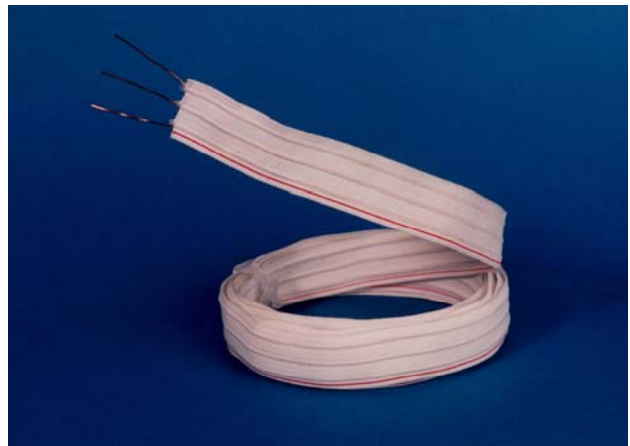
There are several different methods of installation depending on the area of use. Usually, the band is fitted so that moisture is able to penetrate the band easily. The copper wires are woven into the band but it is imperative that the band is protected from sharp or metallic objects.

If the band is laid between the pipe insulation and the surrounding steel casing we recommend that a thicker tape, width 50 mm, is fitted over the moisture band. In certain cases double adhesive tape can be used to fasten the band.

When the fitting of the band is completed, the two outer wires at the end of the band should be looped in order to confirm that there are no breaks in the wire. The middle wire (earthing wire) is used for indicating the presence of moisture/water between this wire and one of the others in the loop.

Lengths of band can be connected using connection sleeves and clamping tongs.

The moisture alarm band is supplied in lengths of 25 m, 50 m and 100 m.



#### Technical Data:

Width of the band: 25 mm  
Diameter of the wire: 0.66 mm  
Distance between wires: 7.5 mm

Wire loop resistance: 4,7 ohm/100 m  
TDR-velocity: 278 m/ $\mu$ s ( 0,926 )

#### Temperature:

The moisture alarm band can be subjected to a constant working temperature of: 180°C  
Melting temperature: 250°C