

Probe Installation: Filling Level Probe TDS-80xxx (or TDS-75xxx) for A1 Tanks

Attention:

The probe body contains a SERTO-screwing which has to be connected to a **protective pipe made of stainless steel** (not included in the delivery contents) for the probe wire! If the probe wire is permanently in touch with the A1 medium of the tank inventory **no warranty** for the durability of the probe can be granted!
Probe protective cap: If the probe has a **yellow** protective cap, **remove** the cap before lowering the probe!

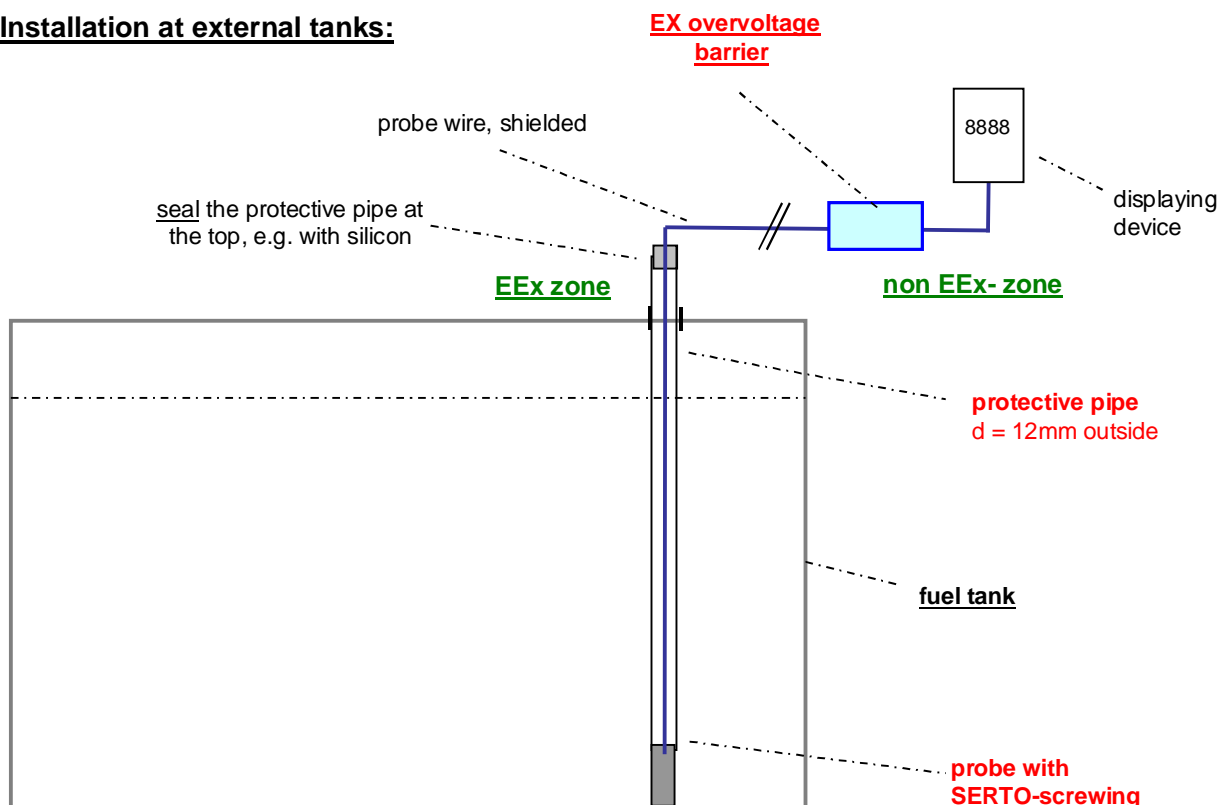
Basics:

The installation of the probe in A1 tanks has to be performed by a qualified technician.
Outside of the tank's EEx area an overvoltage barrier needs to be interposed between the non EEx displaying device and the EEx probe.

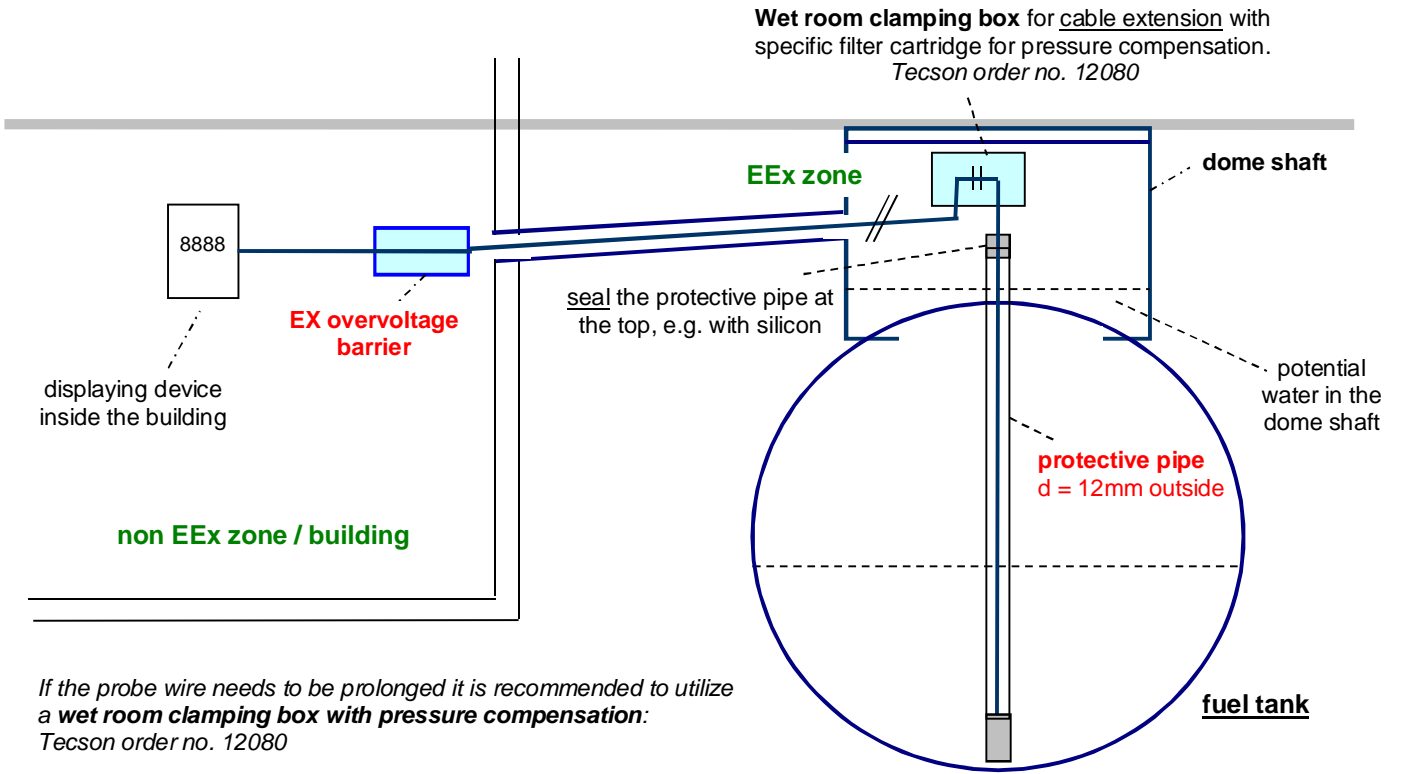
The connection cable of the EEx probe can be electrically prolonged with a shielded cable.
The cable shielding has to be connected to the ground potential.
In addition to the conductors (+) and (-) the probe wire contains of a breather capillary.
This capillary has to fulfill the function of pressure compensation. The cable installation has to be realized in a way that **no humidity** can soak into the end of the cable, however **pressure compensation** needs to be possible.

The measuring probe and the protective pipe have to be screwed together tightly to ensure waterproofness.
The installation instructions have to be carried out precisely. Afterwards the probe needs to be lowered along the protective pipe until it hangs just a few millimeters above the tank bottom.

Installation at external tanks:



Installation at burried tanks:



Overvoltage barrier / Zener barrier:

Connection Diagram MTL 7787

