

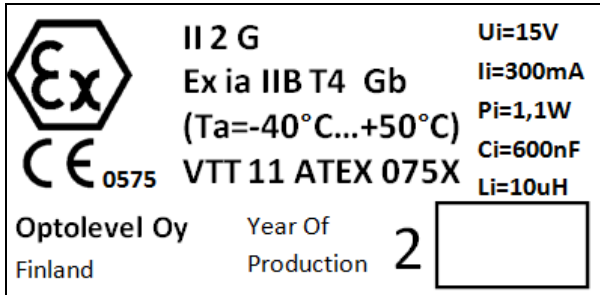


Date	Author	Version
4.10.2011	Joonas Järvinen	V1.0
28.9.2012	Joonas Järvinen	V2.0
11.2.2016	Joonas Järvinen	V2.1

PRID tag installation manual

Markings and coupling

PRID tag is has following certification



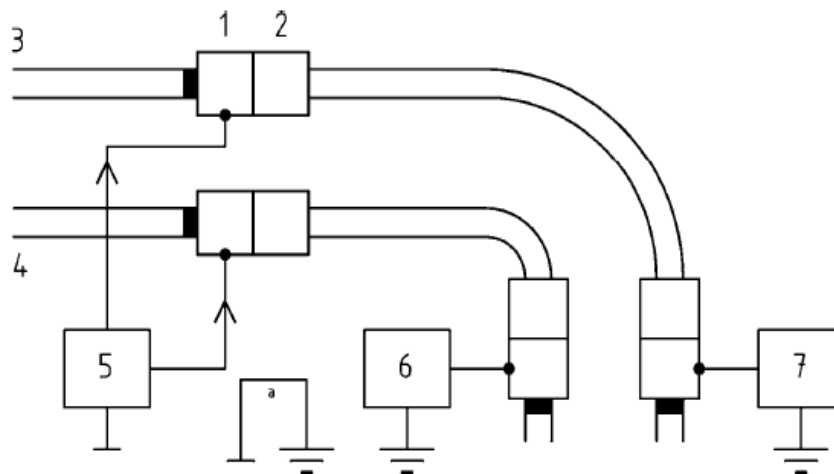
From this we see that PRID tag is certified to device category 2 G. It can be installed in zones 1 and 2. Device protections are based on [ia] intrinsic safety (EN60079-7). Protection type demands that device **is only connected** to certified connection with following values:

Ui	li	Ci	Li	Pi
15V	300mA	600nF	10uH	1.1W

Coupling values are presented in standard EN14116 and they are in compliance with standard EN60079-11 “intrinsic safety”.

Installation

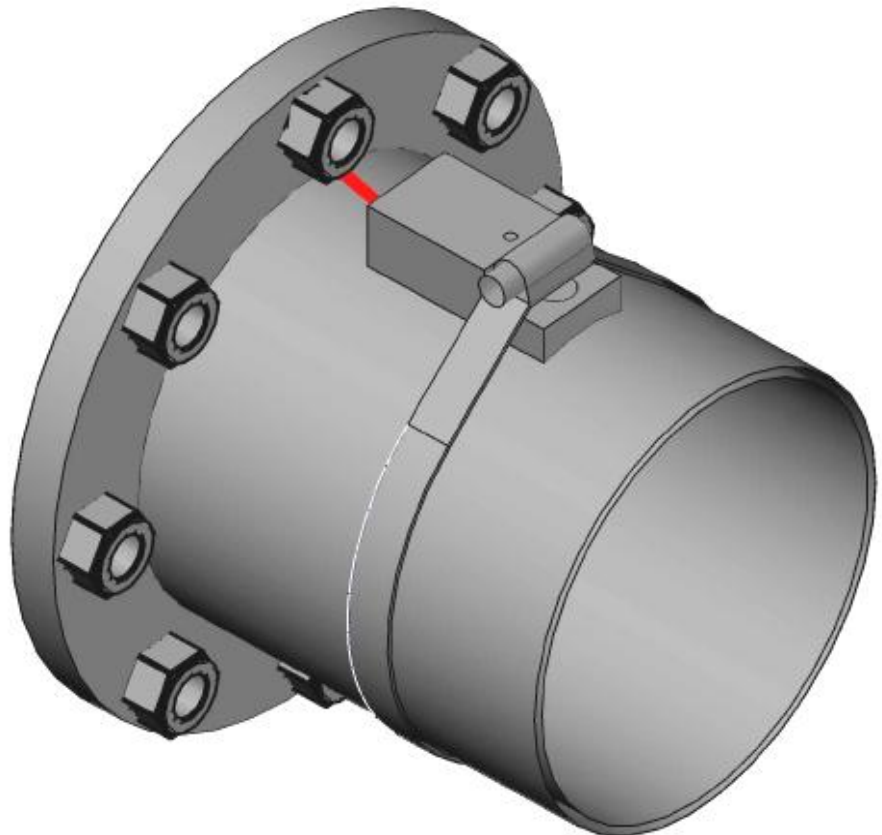
For PRID tag to work it needs isolated discharge hose/loading arm and ground connectivity.



Picture 1. Principle of operation



The only wire/metallic slip of the PRID tag needs to be connected to isolated transmission line. Tag body is connected to ground potential. PRID is powered from the transmission line with low intrinsically safe electrical charge. Transmission line is also used for communication. In picture 2 there is an example drawing of the installation. Only ATEX-trained professionals are allowed to make installations. (EN60079-14).



Picture 2. Device installation



Picture 3. PRIDtag



Documentation

The installation needs to be documented and in the installation location there should be information about the whereabouts of this documentation. Below is manufacturer's recommendation for documented subjects (SFS-EN60079-14)

Installation date and location

Device versions: _____

Device serial numbers: _____

Technician qualification and name: _____

Technicians contact information:

The resistance between device cover and ground potential was measured and it was less than 1Ω

The resistance between Isolated section and ground potential was measured and it was greater than $100k\Omega$

References (voluntary):

Data in the tag (voluntary):
