1 Declaration of DS02B Cross-Model Compatibility Cover Letter

Hereby we,

Name of manufacturer: TWTG R&D BV Address: Schaardijk 386

Zip code & City: 2909 LA, Capelle a/d IJssel

Country: The Netherlands
Phone Number: +31 (0)10 203 79 05

Declares the equivalence of the listed products with respect to EMC directive requirements:

- 1. DS-TT-02-DD Temperature Transmitter, intended to monitor the temperature in industrial environments and send it over LoRaWAN wireless protocol
- 2. DS-RT-02-DD Ratiometric Transmitter, intended to measure ratiometric signal from a range of sensors, and send it over LoraWAN wireless protocol
- 3. DS-LD-02-DD Low voltage Differential Transmitter, intended to communicate with DS-VB-02-DD, and send their data over LoRaWAN wireless protocol
- 4. DS-VB-02-DD Vibration Sensor to monitor vibration of industrial equipment, intended to be connected to DS-LD-02-DD
- 5. DS-PG-02-DD Pressure sensor assembly within pressure gauge, intended to be connected to DS-RT-02-DD

Where:

Type Designation:

• DS-BB-CC-DD

Trademark: TWTG R&D BV

Model: DS02B

Serial number: "BBCCDDYYZZXXXXX"

- BB = Product variant e.g. TT, RT, LD, VB or PG
- CC = Major Revision
- DD = Region, e.g. 00 for Global
- YY = Year of manufacture, e.g. 22 for 2022
- ZZXXXXX = Individual Identifier e.g. "AA00001":
 - ZZ = Production Batch ID
 - XXXXX = Individual Identifier

Evidenced by:

- Test report to demonstrate compliance of DS-LD-02-00 transmitter with DS-VB-02-00 sensor regarding use of the LoRa Radio.
 - declaring compliance for all DS-XX-02-XX variants using DS02B identifier with a LoRa radio
 - * DS-LD-02-00 Tested variant
 - * DS-TT-02-00 Identical to tested variant in terms of radio transceiver and antenna
 - * DS-RT-02-00 Identical to tested variant in terms of radio transceiver and antenna
- Test report to demonstrate compliance of DS-LD-02-00 transmitter with DS-VB-02-00 sensor to EMC directive requirements
 - declaring compliance for the following DS-XX-02-XX variants using DS02B identifier:
 - * DS-LD-02-00 representing most onerous product type
 - * DS-TT-02-00 covered by test results of aforementioned product
 - Variant which differentiates in a different interface circuit, which is independent from the radio circuit
 and located on a separate circuit board. This interface circuit removes the digital communication
 transceiver to communicate with the DS-VB-02-00 sensor and replaces it with an analog measurement circuit.
- Test report to demonstrate compliance of DS-RT-02-00 transmitter with DS-PG-02-00 sensor to EMC directive requirements
 - declaring compliance for the following products using DS02B identifier:
 - * DS-RT-02-00 representing most onerous product type



2 Hardware differences between products

All hardware is using an identical LoRa transceiver and antenna. Differences in product variants can be found in the secondary PCB, and do not affect the radio and its emissions.

3 Software differences between products

Each product variant employs the same LoRaWAN software stack. Variations in software across the product range are exclusively attributable to the functionality of interfaces and/or sensors.

Authorised by signatories:

Wester

Wesley Kerstens, responsible person; Capelle A/D IJssel, d.d 23-04-2024