



Fredrik Eriksen Fell
Technology AS
Bragernes Torg 2
3017, Drammen

Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

2025-05-02

Attn: OET Dept.

Ref: FCC Class II Permissive change for FCC ID: 2AFOZW3701

Applicant: Fell Technology AS

Dear Examiner,

This is to request a Class II Permissive change for FCC ID: 2AFOZW3701 originally granted on 08/26/2022.

Make changes to the appearance and power supply method, and adjust the PCB layout accordingly. Enable GPS function by software. Change the product name, model, hardware and software version information.

1. The electrical interface has changed from individual connectors to one common circular connector. Replace the following interfaces of the original project (Power, Ethernet/internet cable, Water Sensor tape, Valve cable, modbus) with said connector and in one common wire harness.

The specific components are removed:

- A. Ethernet connector – J20
- B. RS-485 connector – J24
- C. 24V input connector – J21
- D. Voltage out signal connector – J19
- E. Analog input connector – J22
- F. Power supply – U39

This specific component is added as an aggregated connector to the above signals:

Fredrik Eriksen

A. J31 – Flex PCB connector

Components added for GPS:

B. C291 – Antenna switch

C. U61 – Input amplifier

D. FL14 – SAW Filter for GPS

E. J31 - U.FL connector for GPS input signal from external antenna

F. CP13, CP14 added for internal antenna

G. FL11, FL12 – SAW Filter for UHF Filter

H. New filter for input power supply (CISPR25 Class 5)

a. L19, C282, FL13, C283, C284, C212

I. TVS Protection for signals going via J31 connector:

a. D10, D37, D21, D26

J. Power supply – U39

The following components has changed position notably:

A. Piezo buzzer element – PZ1

2. Update the appearance of the prototype, but do not change the material used in the housing, do not update the UL.

3. The rated voltage of the original project is 24V.

The rated voltage is now modified to 12V

The High Extreme Voltages: 16V

The Low Extreme Voltages: 9V

The original project came with a power adapter together with the product. In this product it is using the DC source power supply 12V, not the included power adapter.

4. Add GNSS function: GPS 1559-1610MHz. This functionality is added within the same module ME910G1-W1 which was already there, and added a receiver antenna.

There is no other change, in addition to the above, all other RF parameters and circuits remain the same as before.

I attest that the certified device will not be capable of ad-hoc mode operation outside of the grant conditions.

Sincerely,

Fredrik Erikson

Name: Fredrik Eriksen

Title: CTO

Signature of applicant