



## GENERAL INFORMATION

FCCID: **2AAW8-MI9450**

### 1.1. Product description

#### Benefits

The Series are full-featured continuous inkjet (CIJ) printers designed for demanding manufacturing environments, general purpose as well as very specific applications like high contrast and high performance marking.

#### Consumables

Designed to print on all types of substrates from standard to specific applications (food grade, sterilization, UV cure, egg coding, etc.); alcohol-based, water-based, ketone-free and MEK-free inks available; wide variety of colors.

RFID is used to recognize and validate the consumables.

#### Substrates

Plastics, glass, metal, cardboard and directly onto food.

#### Markets

Food, beverage, cosmetics, toiletries, electrical equipment, electronics, cables, tubes and profiles.

### 1.2. Tested System Details

The FCC IDs for all equipment, plus description of all cables used in the tested system are:

The system was configured for testing in a typical fashion (as a customer would normally use it). Printers 9450, 9410, 9450S and 9450E are same electronics, differences are:

1. Index of protection IP55 for 9410 and IP56 or IP66 for 9450, 9450S and 9450E
2. Pressurization of the print head by internal compressed air to the printer, air-network customer or by autonomous compressor provided inside the printer.
3. Software:
  - 9410 has the same software as 9450 except with less algorithms.
  - 9450S has the same software as 9450 except more algorithms.
  - 9450E has the same software as 9450S except specific user interface.

All tests are performed on 9450 with RFID ON, worst case.

- Internal max frequencies: 400MHz

#### Power supply:

100-240VAC, 50-60Hz, P+N+E

#### Input/output:

- 1 x Power supply, unshielded cable, length: 2m
- 1 x Umbilical, shielded cable, length: 3m
- 1 x Alarm, unshielded, length: 3m
- 1 x Tachymeter, unshielded, length: 5m
- 1 x Cell, unshielded, length: 6m



### **Auxiliary equipment used during test:**

- 1 x Cell
- 1 x Tachymeter
- 1 x Alarm

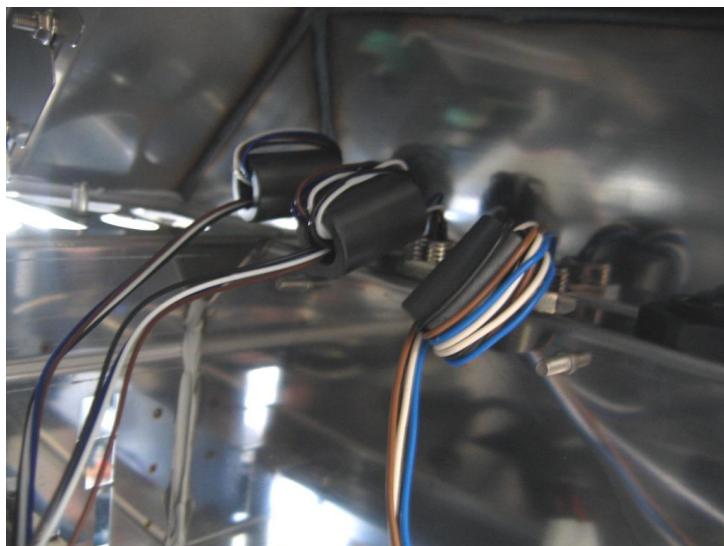
Continuous printing message 32 + 24 dots and reading in loop of 2 TAGs ink and additive cartridge.

#### *Firmware-version*

Boot: 1.1 3749  
Appli A: R4\_37b 10358  
FPGA: 2.0.246

### **Modification**

1 x Ferrite Würth Elektronic 74270056, 3 ways, on alarm / tachymeter / cell cables together.



### **1.3. Test Methodology**

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2003, FCC Part 15 Subpart C.

Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

### **1.4. Test facility**

Tests have been performed from august 7th to 11th, 2014.

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4-2003 in a letter dated March 25<sup>th</sup>, 2008 (registration number 94821). This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-1633 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.