

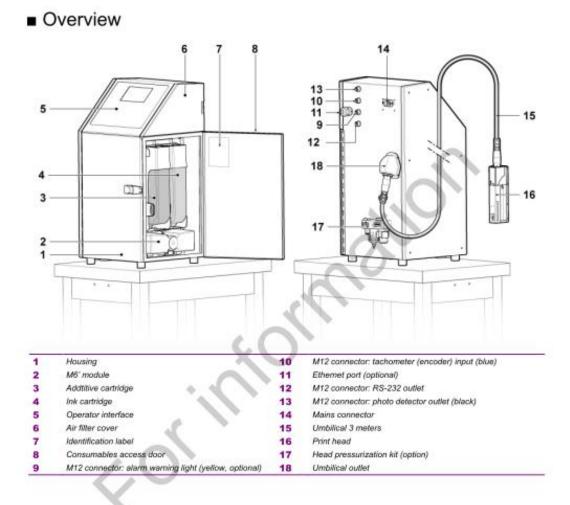
LCIE SUD EST Laboratoire de Moirans Z.I. Centr'Alp 170, Rue de Chatagnon 38430 MOIRANS - FRANCE

GENERAL INFORMATION

FCCID: 2AAW8-MI9000

1.1. Product description

Presentation of the printer





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1.2. Tested System Details

2.1. JUSTIFICATION

The system was configured for testing in a typical fashion (as a customer would normally use it). Printer 9018, 9028 & 9029 are same electronic, differences are:

- 1. Index of protection IP44 (9018), IP54 (9028 & 9029)
- 2. Pressurization of the print head by external compressed air to the printer, air-network customer (9018); by
- autonomous compressor provided inside the printer(9028 & 9029)
- 3. Possibility of impression of 3 lines maximum (9018), 4 lines (9028 & 9029).
- 4. Printer 9029 is the same as the 9028 except for aesthetic variations not safety related

RFID is activated by software following option choice by user.

All tests are performed on 9029 with RFID ON, worst case.

2.2. HARDWARE IDENTIFICATION (EUT AND AUXILIARIES):

Equipment under test (EUT): 9029 FCC ID: 2AAW8-MI9000

IC: 11372A-MI9000

Serial Number: FR18130154



Power supply:

During all the tests, EUT is supplied by V_{nom} :110VAC/60Hz For measurement with different voltage, it will be presented in test method.

Name	Туре	Rating	Reference / Sn	Comments	
Main supply	AC DC Battery	100-240VAC, 50-60Hz	1	1	



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Inputs/outputs - Cable:

Access	Туре	Length used (m)	Declared <3m	Shielded	Under test	Comments
Main supply	P+N+E	2	V		\checkmark	
Umbilical cable	Printing head cable	3	V	V	V	
Beacon cable	Status beacon input	5			\checkmark	
Tachymeter cable	Tachymeter input	6			\checkmark	
Proximity Cell cable	Proximity cell input	6			V	

Auxiliary equipment used during test:

Туре	Reference	Sn	Comments	
Proximity cell	A45638	D451	/	
Pulse encoder	A41370	B11219C194 -4	/	
Beacon	FB194	16419P	Model MP02C	
Relay output option	A54006	/	Reference Markem Imaje	

Equipment information:

Frequency band:	☑ [13.553–13.567]	13.553–13.567]MHz 🛛 [12		5]kHz	□[-]MHz		
Sub-band REC7003:	☑ Annex 9 (j)		Annex 9 (a3)		□ Annex ()		
RF mode:	Transmitter	☑ Transceiver		🗆 Receiv	ver 🗌 Standby		
Type:	⊠ RFID	🗆 EAS		□ Other:			
Bandwidth:	□ Narrowband (ISO15693, ISO18000-3…)		☑ Wideband (ISO14443, NFC…)				
Product class – Annex B.2	☑ 1	□ 2		□ 3	□ 4		
Channelized system:	⊠ No	🗆 Yes, channel spa			cing: kHz		
Equipment intended for use as a	☑ Fixed □ M		obile		Portable		
Type of equipment:	☑ Stand-alone	e 🗆 Pli		ug-in		Combined	
Antenna Type:	External		☑ Internal				
Antenna connector:	Permanent external	Permanent internal		⊠ None		 Temporary (only for tests) 	
Antenna Gain:	NC dBi						
Duty cycle:	Continuous duty		Interm	ittent duty	□ Continuous operation		
Equipment type:	Production model		odel	Prototype		ototype	
	Tmin:	□ -30°C		□ 0°C		⊠ +5 °C	
Temperature range:	Tnom:			20°C			
	Tmax:	□ 35°C		□ 55°C		⊠ +45 °C	
Type of power source:	AC power supp	ply 🛛 DC po		er supply	Battery (Select type)		
	Vmin:		☑ 93.5V/60Hz				
Test source voltage:	Vnom:		☑ 110V/50Hz				
	Vmax	☑ 126		☑ 126V/50Hz			

2.3. EUT CONFIGURATION

Continuous printing message 24 points and reading in loop of 3 TAGs ink, additive cartridge and MI box.

<u>Firmware-version</u> Boot: 1.0 1183 CPU: 9029L_1.0 2034 FPGA: 1.1.3 RFID: 0.29



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1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 or ANSI C63.10, 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 April 17 to 19, 2018.

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 and ANSI C63.10 (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.