

ACB
Attn.: Mr. R. Fabina
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Dear Mr. Fabina,

On behalf of our customer INID BV, we hereby would like to apply for a Limited (Single) Modular Approval for the following device:

FCC ID : YAB-NGRPAOLF
Brand : INID
Model : 40XX
Description : An Inductive Proximity Card Reader add-on module
operating in the range 115 - 148 kHz.

See following page for the details of the host of which this application applies.
The module is limited in the following items:

This modular transmitter does not comply with the requirements in Section 15.212(a)(1) of the FCC Rules, it deviates on the following subsections:

- It does not have RF shielding, it is a LF application and it wouldn't be practical to implement a RF shielding because that would make operation of the whole device impossible. Highest frequency that occur on the module can be 592 kHz, a clock signal from the host device.
- Depends on power supply by the host. A regulated power supply of 5V and 3.3V is required. 1.8V is generated from the 3.3V supply by an onboard linear LDO regulator.
- Can not be tested in Stand Alone configuration, it requires the host FCC ID: YAB-ISOACRDR.
- Limited in use to the host mentioned on the following page (attestation)

The installation manual states that the installation procedure is only allowed for trained and authorized personnel by INID.
All other requirements are met.

Best regards,
TÜV Rheinland EPS B.V.



R. van der Meer
Test Engineer

Subject
Modular Approval

Date
March 28. 2012

Our reference
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Your reference
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Our General Terms and Conditions, as filed at the Chamber of Commerce in Groningen, are applicable to all orders given to TÜV Rheinland EPS B.V.

TÜV Rheinland EPS B.V. is registered at the Chamber of Commerce in Groningen with no. 27247331.



Appendix 1B - Attestation of Similarity

March 7th, 2012

To whom it may concern:

This submittal for addition consists of different products that are comprised of the identical main board, RF Circuit and integral antenna on the main PCB with identical LF proximity add on module. Since adequate testing of the non-keypad and keypad geometries was completed by TÜV Rheinland EPS B.V. (FCC Listed: 90828 and IC Registered: 2932G-1), and the fact that the plastic enclosure differences do not affect compliance; the model designation for certification for FCC shall be "50XX" (refer to the AoS on the following pages for differences).

The FCC ID's of the incorporated devices are:

YAB-ISOACRDR model 50XX INID ISO14443 AC reader (13.56 MHz)
YAB-NGRPAOLF model 40XX NGRP-AOLF (115 – 148 kHz)

Sincerely,

Mark de Olde
Chief Technical Officer
INID BV



Attestation of Similarity

The **INID MultiSmart** reader product family consists of different models that incorporate the 50XX INID ISO14443 reader (YAB-ISOACRDR) and the 40XX NGRP AOLF add on module (YAB-NGRPAOLF). The 50XX models incorporate an identical main PWA (NGRP-AC v1.21) that has integral: Power Section, I/O Section, Digital Processing Section, RF Section and Antenna. The main PWA has optional integral keyboard. The integral I/O Section of the main PWA is equipped with one out of four possible interfaces. The main PWA of the 50XX connects via it's expansion bus to the NGRP AOLF module to add low frequency proximity reader functionality to the device. This 50XX main PWA board with added NGRP-AOLF module is then placed within different plastic enclosures that do not impact compliance for Safety, Radio, Emissions and immunity requirements. The NGRP-AOLF module is added to the 50XX main PWA integral to the plastic enclosure. In cases where the basic geometries may affect compliance – prescans are performed in order to identify the worst case model. All Engineering justifications and or compliance impacts are addressed within the report in the form of additional testing and/or notes.

– Model 50XX –

Reader Type	#1 - Mullion with Keypad - 13.56MHz Reader with RF amplifier and LF proximity Reader								
Part number	Enclosure	Main PWA	RF amp	Key-board	WG C&D TTL	RS485 RS422	RS232	CAN	PWA #2
5045	Plastic	5040	Y	Y	Y	-	-	-	NGRP AOLF
5055	Plastic	5050	Y	Y	-	Y	-	-	NGRP AOLF
5065	Plastic	5060	Y	Y	-	-	Y	-	NGRP AOLF
5075	Plastic	5070	Y	Y	-	-	-	Y	NGRP AOLF
Differences	The only difference between these models is the integral I/O section on the PWA.								

Reader Type	#2 - Mullion - 13.56MHz Reader with RF amplifier and LF proximity Reader								
Part number	Enclosure	Main PWA	RF amp	Key-board	WG C&D TTL	RS485 RS422	RS232	CAN	PWA #2
5005	Plastic	5000	Y	-	Y	-	-	-	NGRP AOLF
5015	Plastic	5010	Y	-	-	Y	-	-	NGRP AOLF
5025	Plastic	5020	Y	-	-	-	Y	-	NGRP AOLF
5035	Plastic	5030	Y	-	-	-	-	Y	NGRP AOLF
Differences	1. The only difference between these models is the integral I/O section on the PWA. 2. The only difference with reader type #1 is the absence of the keyboard.								

Reader Type	#3 - Desktop - 13.56MHz Reader with RF amplifier and LF proximity Reader								
Part number	Enclosure	Main PWA	RF amp	Key-board	WG C&D TTL	RS485 RS422	RS232	CAN	PWA #2
5085	Plastic	5020	Y	-	-	-	Y	-	NGRP AOLF

Supporting product photos are under the signature below



A handwritten signature in black ink, appearing to read 'Mark de Olde', written over a horizontal line.

Mach 20th 2012

Company Representative Signature:
Mark de Olde / Chief Technical Officer

Statement date:

Product photos



From left to right and top to bottom:

1. INID MultiSmart PIN reader (models: 5045, 5055, 5065, 5075)
2. INID MultiSmart reader (models: 5005, 5015, 5025, 5035)
3. INID MultiSmart desktop reader (model 5085)
4. NGRP-AC v1.21 + NGRP-AOLF keyboard side without keyboard
5. NGRP-AC v1.21 + NGRP-AOLF keyboard side with keyboard.
6. NGRP-AC v1.21 + NGRP-AOLF connector side