NMO

OIML CERTIFICATE OF CONFORMITY

Issuing authority:	**NMO**
Person responsible:	**Max Linnemann – Head of Certification Body**
Applicant:	**ITALTAX SRL** **Via dell'Industria, 16** **62017 Porto Recanati (MC)** **Italy**
Manufacturer:	**The applicant**
Identification of the certified pattern:	**F2**

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organisation of Legal Metrology (OIML):

OIML R 21 - Edition 2007(E)

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the certificates reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or of the associated test report is not permitted, though they may be reproduced in full.

Issue Date: **01 September 2016**
Reference No: **TS16/0016**

Grégory Glas
Technical Manager
For and on behalf of the Head of Certification Body

UKAS
PRODUCT
CERTIFICATION

0135

The conformity was established by testing and examination s described in the associated Evaluation Report P01963 which includes 15 pages.

Characteristics of the instrument:

Characteristics:

The pattern is a taximeter designated the F2, designed to be installed in a road vehicle for the calculation of fares. The fares are calculated based on measurement of distance and time; the instrument operates in calculation modes S (single application of tariff) or D (double application of tariff). The instrument is powered via the vehicle battery.

The distance measuring device (transducer) is not covered by this certificate.

Main features:

The instrument comprises a PCB housed within a plastic enclosure, five push buttons, two LED displays.

The plastic enclosure consists of front and rear parts held together with screws, with a removable part on the left-hand side allowing access to the communication ports and test connector. An additional back plate is fitted at the rear of the instrument to prevent access to the screws sealing the front and rear parts. The side part and rear plate are held together via a screw, which is used to seal the instrument in the vehicle.

Devices:

- Display check
- Calculation modes S or D
- Fare calculation (initial fare, fare increments, extras)
- Display of rate, mode (For Hire, Hired, Stopped) and fare (actual fare and total fare with extras)
- Display of distance and time for the journey
- Loading of tariffs and software (via sealed interface)
- Real time clock
- Long-term totalisers (non-resettable)
- Display of parameters, software and tariff information (read-only)
- Test connector

Interfaces:

- 2 x RS232
- Passenger Sensor
- External Lights Input
- Odometer Input
- Magnetic Card reader
- Dallas 1-Wire Net
- Digitax Printers
- Optional CAN Bus input
- Optional Bluetooth serial port module (SPP)
- Test Connector
- Service/Programming Keys

Technical data:

Power supply	9 to 16 VDC (12 V nominal)
Taximeter constant k	500 to 65,535 pulses/km
Maximum speed	200 km/h
Pulse voltage amplitude (low/high)	0 - 0.3 VDC / 5 -12 V DC
Pulse frequency	≤ 1 kHz
Minimum pulse width	50 µs
Electromagnetic environment	E3
Mechanical environment	M3
Climatic environment	-25°C to +70 °C
	Non-condensing (closed)

Firmware:

The legally relevant software is held in the firmware and is unambiguously identified by its release name and CRC-16 checksum value.

The firmware release name and CRC versions programmed in the taximeter can be displayed as follows:

- From For Hire Position press at the same time K2+K3+K4
- Wait few seconds
- In the left display will be shown the CRC Firmware number
- In the right display will be shown the Country identification with 3 letters and 2 numbers.

The software identification shall be as follows:

Software release name	CRC (checksum value)	Country / Language
F2N01	29093	Generic / Programmable

Software download is only possible via the Service programming key, which is protected by the mechanical seal described in section 2.1.

Sealing measures:

The taximeter is fitted with sealing point preventing access to the metrological components and sealing the instrument to the car.

CERTIFICATE HISTORY

ISSUE NO.	DATE	DESCRIPTION
R21/2007-GB1-16.04	01 September 2016	Certificate first issued.
-	-	No revisions have been issued.