

VERIFICATION OF MAGNETIC FLOW METERS

Verification is becoming a standard QA requirement. It confirms that key meter parameters of installed flow meters remain within specified tolerances over time.

Each meter has its own unique “bench mark” or “foot print” of parameters which are measured when the meter is manufactured or when it is installed. Best operating practice is to re-measure these parameters at specified intervals. N&Z offers a verification service, or the user can self-verify with the tools Isoil supplies.

- VERIFICATION OF ISOIL BATTERY POWERED MAG METERS
Stand-alone verification using the ISOCAL

The **Isoil** is a stand-alone verifier which is itself certified periodically by the factory and therefore has traceability back to National Standards. The Isoil connects between the Isoil mag flow sensor and the converter. It executes a large number of tests automatically on the sensor and/or convertor and produces a printed, traceable certificate. Isoil pioneered verification of battery powered mag meters.



ISOCAL Verification System Report

Filename: 04J0150_25M000_T90022_2014-05-22_16-22-10

CUSTOMER INFORMATION		METER INFORMATION	
Customer Name: A.A.A.	Operator Name: Philip	Sensor Serial Num: 0420010	Converter: 00100
Code: 001	Test Progression: T0002	Serial Num: 03M0000	Circ. Board ID: 00118
Pipe status: Full	Vert. date: 20140422 14:21:40	Site Details: Location: Vereeniging	Tag: EX Bowl Club
Report date: 2015/01/02 20:10:30			

ISOCAL INFORMATION

Serial Num: 09M0002
Last calibrate date: 2011/12/14
Days to next calibrate: 204
Firmware version: 2.28 May T 2004
Isoil interface software verif: G.1.0.13

Total test result: PASS

SENSOR RESULT DETAILS

Measure	Pass/Fail
Cable Continuity E1-E2 Pipe Length (KG)	PASS
Cable Continuity C-E1/E2 Pipe Length (KG)	PASS
Coil Resistance (G)	PASS
Coil Impedance at 500Hz (G)	PASS
Coil Impedance at 200Hz (G)	PASS
Insulation Resistance E1-E2 (MG)	PASS
Insulation Resistance E1-C (MG)	PASS
Insulation Resistance E2-C (MG)	PASS
Insulation Resistance B1-B2 - C (MG)	PASS
Insulation Resistance B1-SCE - E1 (MG)	PASS
Insulation Resistance B1-B2 - E2 (MG)	PASS
Insulation Resistance E1-SCE (MG)	PASS
Insulation Resistance E2-SCE (MG)	PASS
Insulation Resistance C-SCE (MG)	PASS
Insulation Resistance SCE-S1 (MG)	PASS
Total result	PASS

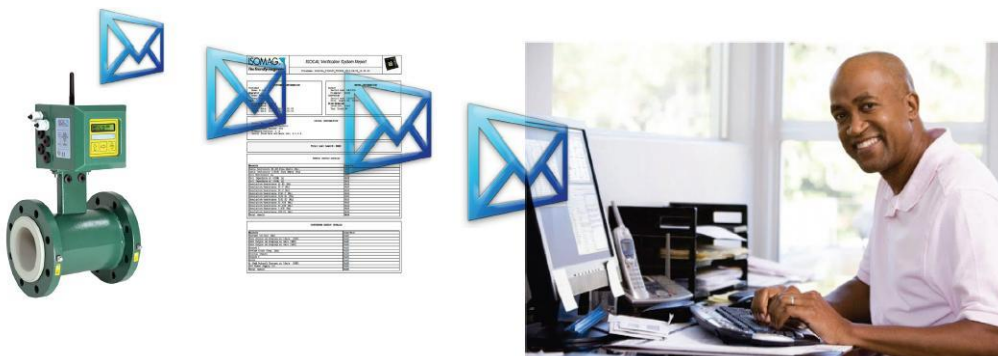
Isoil Verification Certificate



Mag meter being verified with the ICOSAL

BUILT IN VERIFICATION (AUTOMATICALLY E-MAILS REPORTS TO YOU)

The Isoil mag meter continuously carries out numerous self-checks. In addition to this Isoil has developed “Built In Verification” (BIV) which includes additional tests. With this option the user selects the frequency of the Built In Verification report. The meter carries out these measurements and automatically e-mails a file which produces a hard copy Verification Report. This functionality is a great contributor to optimized maintenance. With Built In Verification you get an early warning of when you need to travel to the meter to perform the higher level **ISOCAL** verification.



Built-In Verification delivers a report on flow meter health which is automatically emailed at pre-determined intervals.