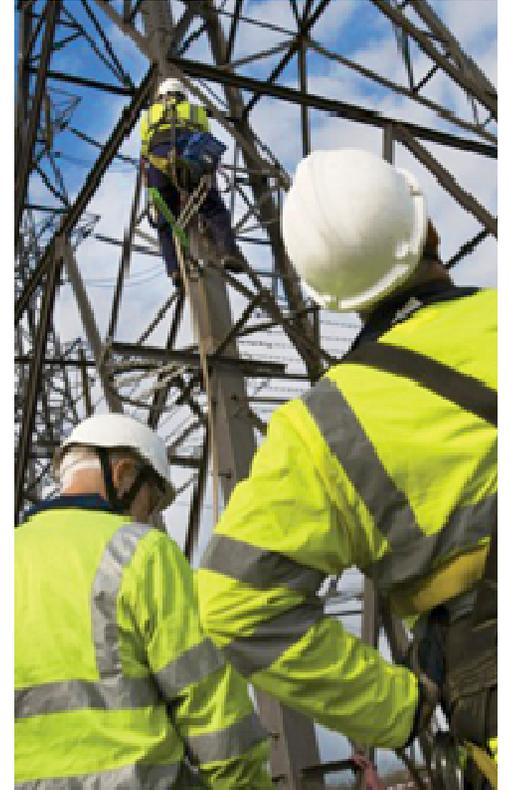


Permalin (A-Type) Meter Installations



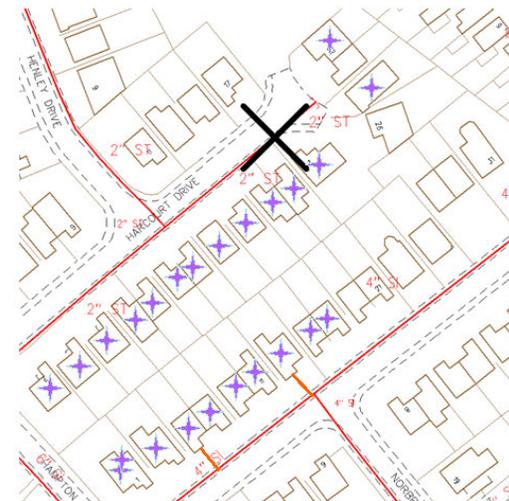
nationalgrid

The power of action.™

Background

Originally ~ 50,000 installed in West Midlands, surrounding areas and iDNs

- ◆ Early 1970s Permalite developed external gas meter box
- ◆ Some service and/or installation pipes routed within cavity walls
- ◆ Gas Safe guidance - “At Risk” situation.
 - ◆ The supply should be isolated at ECV.
- ◆ Proportion of original population have already been replaced
 - ◆ c20,000 remaining



Issues

Can the meter be exchanged?

- ◆ Obligations
 - ◆ NGG – service pipe
 - ◆ Meter Installation – MAM
 - ◆ Internal pipe work and meter box – Consumer

- ◆ GL undertaken
 - ◆ c520 site visits
 - ◆ Laboratory work

- ◆ Concluded that
 - ◆ No standard installation
 - ◆ Torque involved in meter work is relatively low, but could result in movement of the pipe which could cause an escape on an already corroded pipe (service or customer)

Detail of proposed on site risk assessment

Using the colour categories below, obtained via on site risk assessment, Determine what action to take.

Position of service	
Inside property	
Externally above ground	
Inside cavity	

Internal installation & ECV	
Fully accessible	
Partially accessible	
No access	

Visible leakage path from meter box and/or internal cupboard into cavity (condition of cavity)	
Yes	
Yes - but could easily be made gas tight	
No	

Site survey results			Risk assessment outcome
Service	Internal installation	Condition of cavity	

The site survey result boxes above should now contain the outcome of your on site risk assessment.

RED appearing in ANY of the boxes means you must NOT fit the meter and you should contact DH on 0800 000000

GREEN appearing in BOTH boxes means you are able to PROCEED with fitting the meter

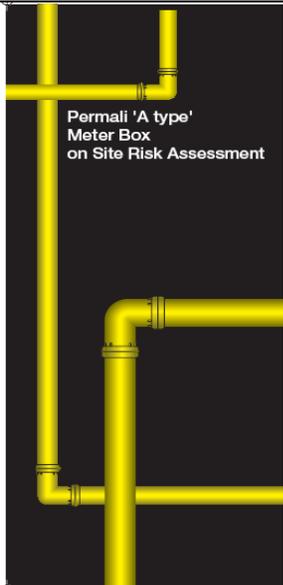
AMBER or **GREEN** combination in EITHER of the boxes contact DH on 0800 000000 and await their representative

On Site Risk Assessment Outcomes

RED Do not fit meter. Contact DH

AMBER Contact DH 0800 111 999 Await DH representative before progressing

GREEN Proceed with meter exchange



Permal 'A type' Meter Box on Site Risk Assessment

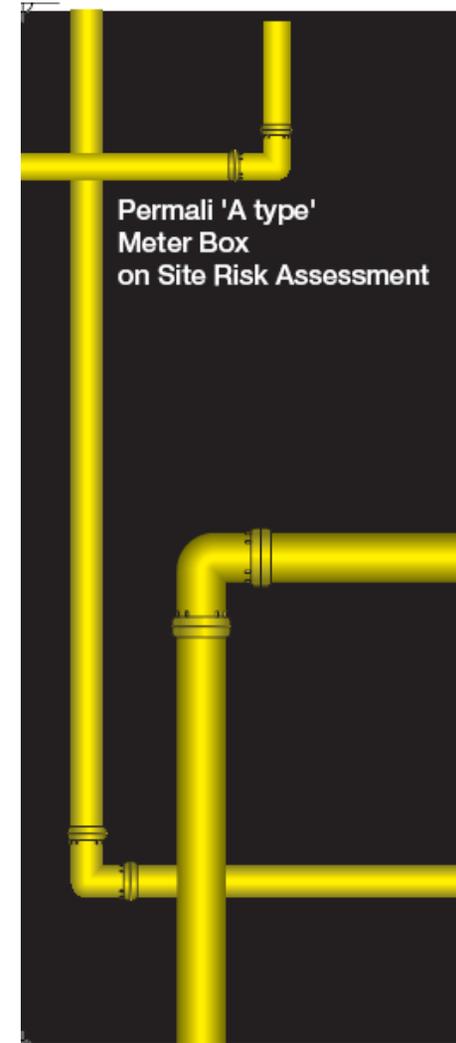
Background

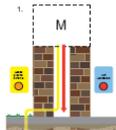
National Grid Gas has a population of circa 20,000 Permal 'A' type Inset meter compartments installed during the early 1970's principally by West Midlands Gas Board. These meter compartments were manufactured in three glued sections. Predominantly an outer door was fitted. Additionally in some cases an access door was located on the inside of the property.

The gas service and the emergency control valve (ECV) were sometimes installed in the cavity positioned beneath the box. On some installations the internal installation pipe was also located within the cavity, in most cases the service and installation pipework together with the ECV is accessible internally via the door described above.

Experience has shown that over the years householders have made a number of modifications to the initial installation, hence the need for an on site risk assessment. The attached risk assessment has been developed to help determine the mitigating actions that the Distribution Network need to undertake when the type of meter box installation is encountered.

In all cases access needs to be gained to the property to determine the status of the gas service and internal installation pipework.

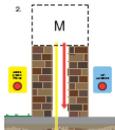




1. INSTALLATION = ●

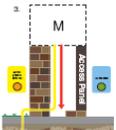
The service pipe rises out of the ground **EXTERNALLY** to the property **BEFORE** entering the cavity

The internal installation pipework exits the meter box directly into the cavity with **NO** internal access provision



2. INSTALLATION = ●

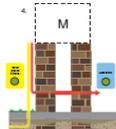
Both the service and installation pipework are **ENCLOSED** within the cavity with **NO** internal access provision



3. INSTALLATION = ●

The service pipe rises out of the ground **EXTERNALLY** to the property **BEFORE** entering the cavity

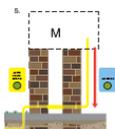
The internal installation pipework exits the meter box directly into the cavity **WITH** internal access provision. The cavity is sealed



4. INSTALLATION = ●

Both service and installation pipework are **EXTERNAL** to the property

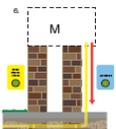
The internal installation pipework passes by the shortest route through the cavity



5. INSTALLATION = ●

The service pipe rises out of the ground **EXTERNALLY** to the property **BEFORE** passing through the cavity by the shortest route.

The internal installation pipework exits the meter box directly **WITH** available internal access



6. INSTALLATION = ●

The service pipe rises out of the ground **INTERNALLY** to the property

The internal installation pipework exits the meter box directly **WITH** available internal access

Permal meter box installations - On site risk evaluation

Engineer Details		
Name	<input type="text"/>	
Date	<input type="text"/>	
Network and Sector	<input type="text"/>	

Job Details		
House number/ name	<input type="text"/>	
1 st line of address	<input type="text"/>	
2 nd line of address	<input type="text"/>	
Town	<input type="text"/>	
County	<input type="text"/>	
Postcode	<input type="text"/>	

Service pipe	Location of outsource pipe work	Visible leakage path from meter box and/or internal cupboard into cavity
Fully in enclosed cavity	Open access into cavity	No
Partially in enclosed cavity	Any other configuration	Yes - but could easily be made gas tight
Fully external	Pass through cavity by shortest route and sealed	Yes

General condition of meter box and any other observations / comments / sketch

Not all installations are the same

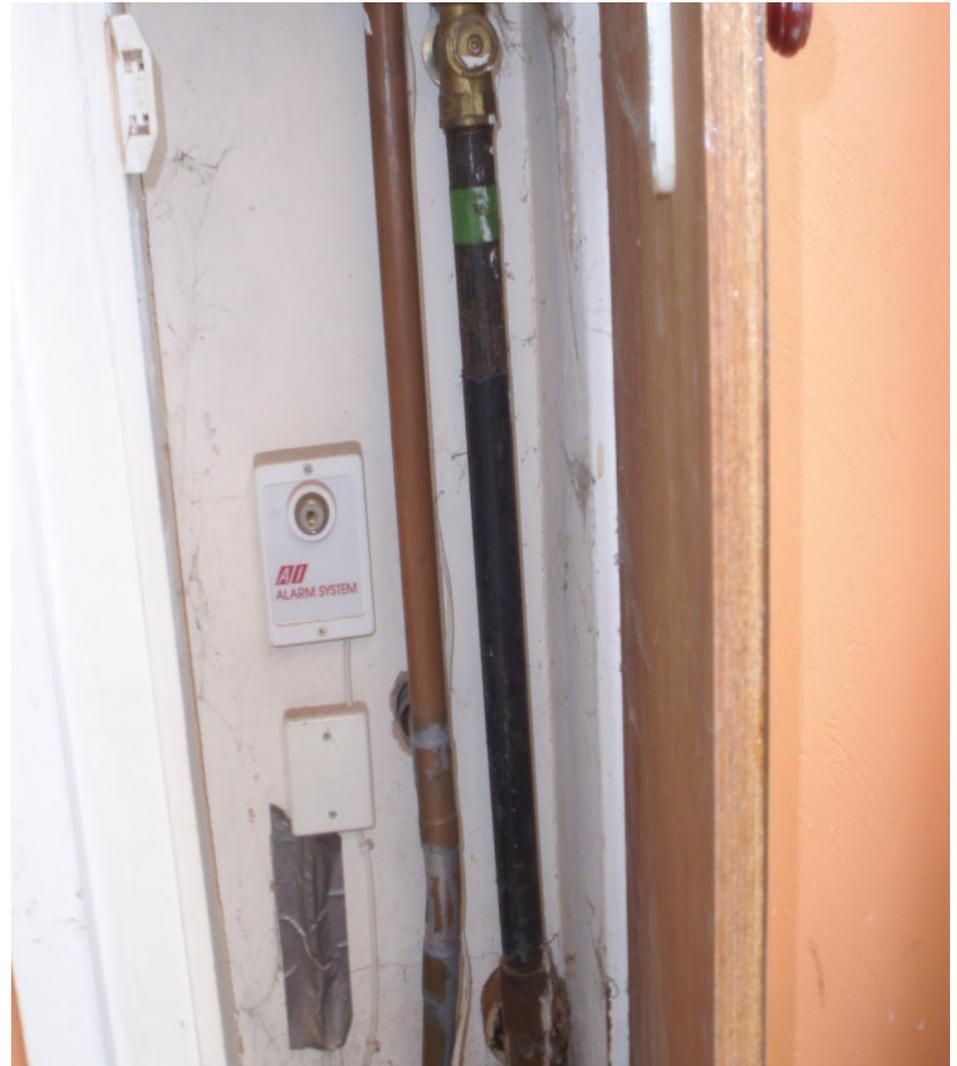
On site evaluation - Green



5

Not all installations are the same

On site evaluation - Amber



Not all installations are the same

On site evaluation - Red



MAMCOP requested to approve

Up to 50% of meters can be exchanged as normal

On site risk assessment

Subject to agreed performance level

RED

Equivalent to planned relay service prior to meter exchange

GREEN

Meter work to be undertake

AMBER

Further work to define scope and additional checks

Permalis installations need inspection, both internally and externally,
BEFORE classifying.