

TTK Hydrocarbon Leak Detection Sense Cable FG-OD Cleaning Procedure

Cleaning Liquids

The liquid below shall be used to clean the FG-OD sense cable from a hydrocarbon liquid or a non-volatile solvent:

- **Hydro-treated Naphtha, SPB 100-160**

Composed by Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

EEC / EINECS No: 920-750-0 or equivalent

REACH Registration No: 01-2119473851-33-0002

This is de-aromatized naphtha, usually employed for dry cleaning or other domestic cleaning.

Liquid used for refilling cigarette lighters has a similar composition and can also be used as a solvent to clean FG-OD cables.

In case hydro-treated naphtha is not available on the installation site, the following liquid could be used as an alternative cleaning solvent :

- **Commercial-grade Motor Gasoline – Unleaded**

Following EN 228 or ASTM D4814 or JIS K 2202 or CGSB 3.5-2004 or equivalent

NB : Commercial motor gasoline would be most suitable for cleaning liquids such as jet fuel or heavier

Note however that, depending on local specifications and production processes (distillation, blending), some motor gasolines may contain some heavy ends which could cause alarm status on the sensing cable concerned by the cleaning process.

If this is the case, then the cable should be :

- either cleaned again by using hydro-treated naphtha
- or exposed to a mild heat source (sun, hot fan, ...) in order to increase the cable temperature (max. 80°C) for sufficient time. In this case, the heating process will be stopped once the heavy ends are evaporated and the alarm disappeared.

Other volatile petrol distillation cuts, such as condensate, can also be used as cleaning solvent.

NB: TTK advice not to use other types of solvents such as trichlorethylene or tetrachlorethylene, also used in dry cleaning.

Cleaning Procedure

Precautions:

Recommendations included in the Material Safety Data Sheet (MSDS) of the selected liquid shall be followed.

MSDS's are made available by the liquid supplier (usually on their website).

Read the applicable MSDS carefully prior to start using the selected liquid.

Health and safety precautions related to handling of harmful, flammable / hazardous liquid shall be respected, including (but not limited to) :

- breathing of vapors from the cleaning liquid shall be avoided;
- cleaning shall be performed in a place sufficiently ventilated;
- no ignition source shall be present close to the cleaning area.

Cleaning Process flow:

- See flow diagram on the following page.

Cleaning solvent disposal:

- Provide proper disposal (e.g. combustion in adequate location) of the used cleaning solvent - not to be dispersed in the environment.

Hydrocarbon Leak Detection Sense Cable FG-OD Cleaning Process Flow

Figure 1

