



## YARWAY PED - OPERATING AND SAFETY INSTRUCTIONS LEVEL GAUGES

Before installation these instructions must be fully read and understood

*!! Read all warning labels fitted to the LG\* before operation or maintenance !!*

*Never open, dismantle or modify the assembly whilst under pressure/temperature or other hazardous conditions.*

### WARNING

*For safety reasons, it is important to take the following precautions before you start work on the LG\*:*

- 1. Read all labels fitted to the LG\* and this sheet before installation, operation or maintenance.*
- 2. Use LG\* for the intended purpose (according contract/specification).*
- 3. Remove the LG\* carefully from its packaging, lifting by means of straps (heavy weight) around the body or use the hoisting lug if provided.*
- 4. Do not use the boiler connections, flanges or any of its accessories for lifting.*
- 5. For installation of the LG\* use gaskets and bolting material in accordance with the relevant piping code (ASME/ANSI B31.1 or EN) and free of "forces, moments and torques".*
- 6. Additional mounting/modifications on LG's\* are not allowed without approval from Yarway.*
- 7. The LG\* expansion loops are to relieve stresses due to thermal expansion installation and not for misalignment compensation.*
- 8. Handling of all LG's\*, illuminators and accessories must be carried out by personnel trained in all aspects of manual, mechanical handling/lifting techniques and standard safety procedures, in case of doubt, consult your supervisor and/or safety officer.*
- 9. Yarway do not accept liability for site work performed under supervision of others.*
- 10. Insulate the LG\* in accordance with plant requirements.*
- 11. Please, follow the procedure as detailed in the IOM\*\*.*
- 12. **Warning:** before installation, retorqueing the nuts as specified.*

### INSTALLATION

1. LG's\* must be properly installed to the boiler connections by flanges or welding ends.
2. To remove solids and/or sediments, please follow blow-down procedure as described in the applicable IOM\*\*.
3. Installation has to be in vertical (use support in case of heavy weight).
4. The LG's\* may be delivered with shut-off valves and/or an orifice in combination with a ball check valve. Check for correct execution on the order drawing (specification).
5. Connection of electrical supplies for the illuminators should be in accordance with the manufacturer's instruction manual.
6. Ensure easy access of the operating mechanism (shut-off valves, drain valve, hand wheels, illuminators, etc.) if applicable.

### CATEGORY

LG's\* are manufactured in accordance with  
97/23 EC - Category I - gas/liquid Group 2  
for V = 0.95 ltr at  
Ps = 200 bar and  
97/23 EC - Category II - gas/liquid Group 2  
for V = 4.7 ltr at  
Ps = 200 bar

Pressure/temperature limits are indicated:  
# on the LG\* nameplate  
# design code: ASME B16.34 AD 2000 or EN

### NOTE

LG\* = Level gauge  
IOM\*\* = Installation, Operation and Maintenance Manual

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## LEVEL GAUGES

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### FINAL INSPECTION

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Yarway LG's\* have been tested, degreased, dried and prepared according to service application.

This should be carried out in accordance with the relevant Yarway's IOM\*\* and available upon request by Yarway via our website: [www.valves.emerson.com](http://www.valves.emerson.com)

### STATE OF DELIVERY / STORAGE / SELECTION / SERVICE LIFE

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#### State of delivery

Yarway's LG's\* are delivered with protection and tested according applicable QIP (Quality Inspection Plan). Particular care should be exercised when removing the LG from its packaging and your special attention is required to check carefully that no damage has occurred to flange faces, welding ends, valvery, illuminators, etc. before installation. Check out IOM\*\* - instructions before proceeding.

#### Storage

For short term storage, up to 6 months, no additional preservation is necessary. Retain the LG\* in its original packaging in a clean, dry indoor location. For long term storage, use only a dry indoor location. Follow instructions given in the IOM\*\* before placing the LG\* into service, inspect all other components to ensure correct functioning.

### Selection

Ensure that LG's\* material of construction and pressure/temperature limits shown on the identification plate and according to the suitable code for the process conditions. If in doubt, contact Yarway or your local representative.

### Service life

Expected service life may vary upon condition of service. Check unit at least once per 8000 hours or longer intervals based upon site experience. Replace glasses and mica's immediately after they became opaque.

### SPARE PARTS

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Use only genuine Yarway components. All LG's\* are identified by an ident number, stamped on the identification plate. Use this number when ordering spare parts.

### NOTE

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IOM\*\* = Installation, Operation and Maintenance Manual