

JAR / Instructions manual

Metallic Cat & Mouse



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Metallic Cat & Mouse
JAR

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NIV

582-01/1

1. BASIC CONFIGURATION

A basic JAR system includes:

Description	Quantity	Code number	Index
Float, Ø 200 mm, stainless steel AISI 316	1	583 300	Fig. A
Cable Ø 1 mm, stainless steel AISI 316 (<i>length upon request</i>)	1	583 500	Fig. B
Stainless steel clamps, AISI 316	2	583 550	Fig. C
Pulley, tank top mounting, with a no jump system, stainless steel AISI 316, protected in aluminium alloy housing	1	582 041	Fig. D
Pulley, ruler top mounting, with a no jump system, stainless steel AISI 316, protected in aluminium alloy housing	1	582 040	Fig. E
Set of 2 transfer tubes, Ø 12 mm, stainless steel AISI 316, 1 m long each	1	582 045	Fig. F
Red pointer with built-in magnet, stainless steel AISI 316	1	582 050	Fig. G
Graduated ruler in aluminium alloy (<i>length upon request</i>), delivered in sections to assemble together	1	-	Fig. H
Adjustable and sliding Tee, stainless steel – *(<i>number according to the total height</i>)	(*)	582 055	Fig. I
Options			
Level switches, potential free, bi-stable – *(<i>number according to the process</i>)	(*)	585 010	Fig. J



Fig. A

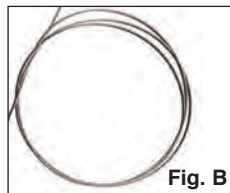


Fig. B



Fig. C



Fig. D



Fig. E



Fig. F

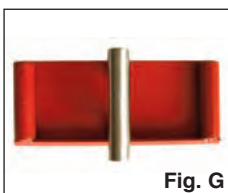


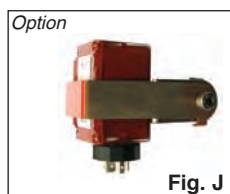
Fig. G



Fig. H

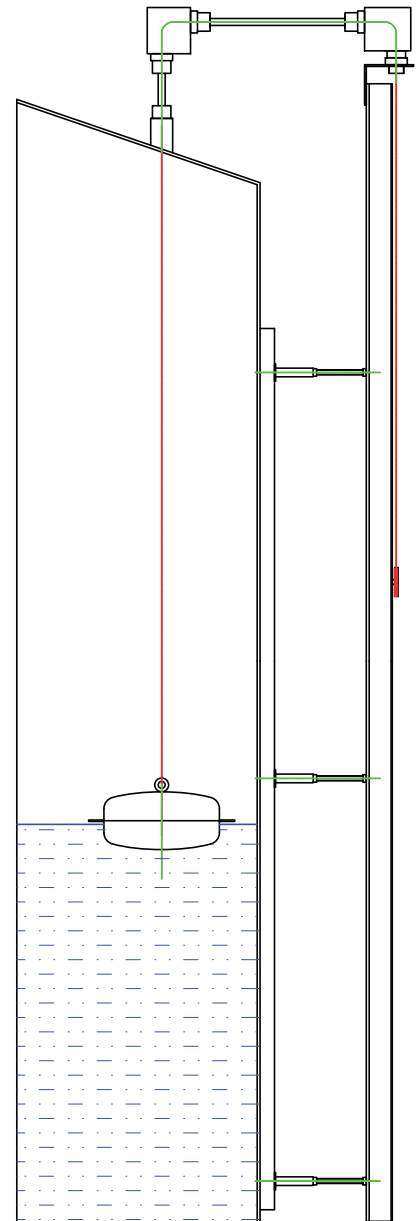
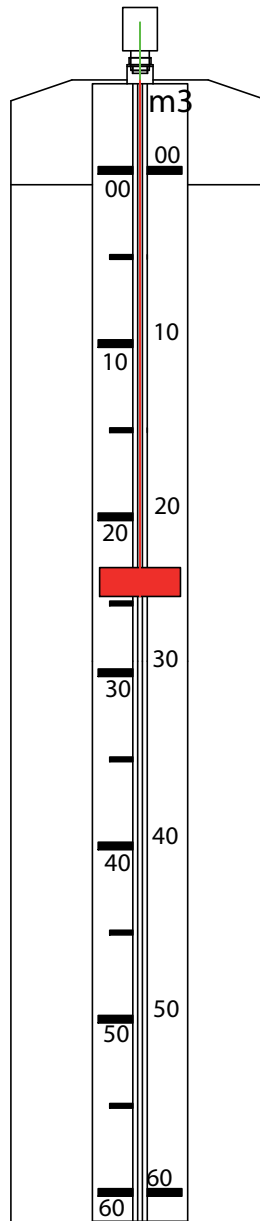


Fig. I



Option

Fig. J



2. MOUNTING

For any JAR with a length shorter than 5 meters, assemble the two or three sections is easily done on the ground, taking care not to damage the graduated scale.

For a JAR with a height over 5 meters, it would be better to follow the procedure as following herein after.

2.1 FITTING THE GRADUATED RULER

a) Preparing the bottom section

a.1) Set up the tees (Fig. K)

- Insert the screw-head in the centred rail of the ruler back.
- Screw on the counter nut; gently block the screw (still not the final position)
- Screw on the tee support on the screw

a.2) Set up the blocking base plate (Fig. L)

- Fix it firmly with its own screw

a.3) Fit the bottom section on the tank (Fig. M)

- Set it up vertically on the tank
- Adjust the sliding tee and then, firmly block it with the counter nut (it slides all along the ruler and deep adjustment from 70 to 150 mm)
- Fit the tee on the tank

a.4) Fit the pointer (Fig. N)

- Insert the pointer in the front rail (cable clamp up)

b) Addition of ruler sections

Set up the tees as in chapter a.1

b.1) set up the bonds to join the ruler sections together (Fig. O)

- Insert the bonds in the sided rails without blocking them

b.2) Set up the additional section on the bottom section fitted on the tank

- Proceed to assemble the sections together with the bonds
- Check up the alignment of all sections after blocking the bonds
- Adjust the Tee on the ruler and block it
- Fit the tee on the tank and block it

c) Set up the top section

c.1) Proceed as before

- Set up the tees as in chapter a.1/ and bonds as in chapter b.1

c.2) fit the top section on the ruler

- Assemble the top section on the fitted ruler with the bonds
- Check up the alignment after blocking the bonds
- Adjust the Tee on the ruler and block it
- Fit the tee on the tank and block it

c.3) Set up the right angle bracket (Fig. P)

- Fix the bracket on the top section and block it



Fig. K



Fig. L

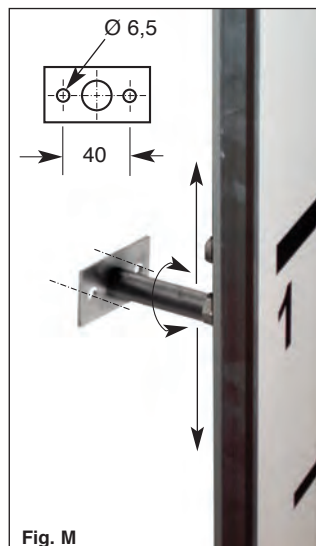


Fig. M



Fig. N

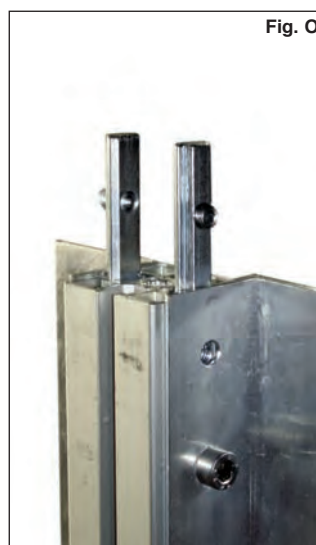


Fig. O



Fig. P

2.2 FITTING THE MOBILE EQUIPMENT

a) Montage du système à câbles et poulies

a.1) Adjust the lengths of transfer tubes (Fig. Q)

- Check up the correct lengths according to your

a.2) Fit the pulleys and transfer tubes on the ruler (Fig. R)

- Assemble and block the tubes on the pulleys
- Fit the assembly on the tank and the ruler
- Screw tightly the connections on the tank (1) and on the ruler (2)
- Hold up the tubes if necessary

a.3) Cable length adjustment

- Set up the float to one end (Fig. S).
- Insert the float inside the tank
- Install the cable through the mobile equipment and fix the pointer

REMINDER: When the tank is empty, the pointer is on the upper position.

CAUTION: Check up the alignment of all the sections together, the pointer should slide smoothly all along the ruler without difficulty.

2.3 Fitting the level switches

Set up the level switches

- Set up the squared nut in its rail according to the desired detection level
- Fit the level switch and tightly screw it
- Connect the measuring loop cable

3. PRECAUTION DURING THE ASSEMBLE

- Carefully fit each section to the other one without loose space with a perfect alignment of rails
- Fit each ruler section with at least one tee (*1 tee is a minimum*)
- Tees may not suffer any other mechanical effort (*do not hang up anything on them*)
- The system should be vertical
- Check up the correct compatibility between the switching power of the level switch and your connected device

4. MAINTENANCE

- Check up regularly the dirtiness of centred rail. Clean it up when it is necessary to live the pointer to slide freely
 - Check up regularly the dirtiness of pulleys and transfer tubes. Clean them up when it is necessary to live the cable to move freely.
- Cleaning the graduated ruler:** never use any organic solvent or abrasive preparation.

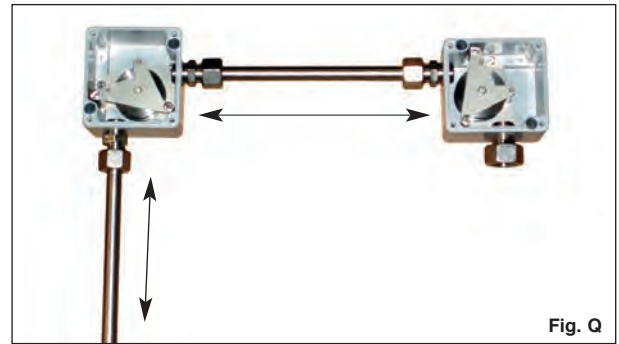


Fig. Q

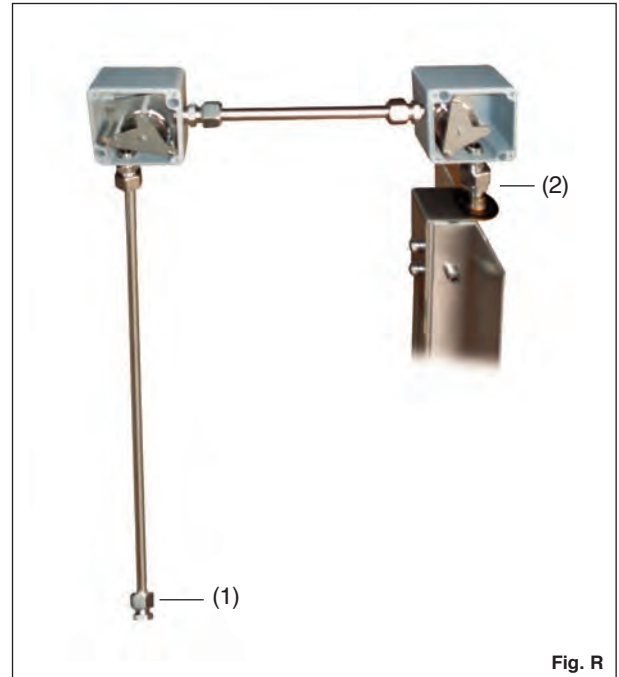


Fig. R



Fig. S