

WINDER MK 1B (WITH CABLE WIPER) INSTRUCTION MANUAL



Introduction

The MK 1B Winder is designed to be used for the manual sampling of bulk liquids such as various types of oil and water. It can be held in either the left or right hand.

This latest development of the winder has a new winding handle, incorporating a new reel lock. This gives added safety, by ensuring that the winding reel locks automatically as soon as the operator releases the winding knob.

Another new feature is the addition of a gear-driven depth counter, to give the operator a clear indication of the depth of the sampler at all times.

The stainless steel cable has a safe working load of 48 kg. This gives the winders a good safety margin when working with samplers, which typically weigh between 1 kg and 4 kg. The winder has been tested with a load of 10 kg.

The winder is fitted with an earthing strap, which enables the operator to make a good electrical connection between the winder and the tank structure. This, in turn, minimises the risk of a build-up of static electricity.

The winder has a unique type of hook with which the shackle of the sampler can be locked safely. This has two advantages: it ensures electrical continuity right through to the sampler itself, and it minimises the risk of losing a sampler during operation.

It must be highlighted that, although the system is designed to provide a safe method of lowering and lifting sampling equipment, the winder must always be used in accordance with this instruction manual. The user must also take into account ISGOTT guidance, company circulars and other directives.

Operating Instructions

1. While the winder is carried about or not in use, it is automatically locked, thanks to the locking mechanism incorporated into the winding handle.
2. Check the condition of the stainless steel cable where it joins the hook, for signs of possible wear or damage.
3. Attach the hook to the shackle of the sampler, by unscrewing the sleeve to open the hook, inserting the shackle of the sampler, and screwing the sleeve down again, in order to ensure safe connection and electrical continuity.
4. Before lowering the sampler into the tank, make sure that the winder is connected electrically to the tank structure, using the earthing strap.
5. If desired, the lower edge of the frame may be rested on the rim of the tank.

6. When ready to lower the sampler, reset the depth counter, if necessary, to zero. Unlock the winder reel by squeezing the plastic winding knob against the spring pressure. Turn the winding handle, keeping a grip on the plastic knob, to lower and raise the sampler.
7. If the winding knob is released at any time during operation, the reel will automatically lock. This avoids any possibility of a sampler falling into the tank out of control.
8. While lowering the sampler, use the depth counter to see how far the sampler has travelled. Please Note: Use the comparison table on the following page to find the counter reading that corresponds to the actual depth of the sampler!
9. Once the desired level has been reached, follow the operational requirements of the type of sampler being used.

Table showing comparison between actual depth of sampler and Depth Counter reading

Actual Depth of Sampler (m)	Depth Counter Reading (m)
5	5.0
10	10.1
15	15.2
20	20.7
25	26.4
30	31.7