

OxyGuard Redox/ORP Probes

an overview

General Information

All OxyGuard redox/ORP probes consist of a body, an electrode, a preamplifier and cable. The heavy duty types also have an electrolyte container. The special design of the probes eliminates the problems of moisture sensitivity and electrical noise sensitivity that are frequently met with other designs of probe. OxyGuard redox/ORP probes work well in wet conditions, and will continue to do so until the electrode needs attention. Two main types of probe are available, light-duty probes for lighter applications, and heavy-duty probes for applications where the process destroys normal electrodes in a short space of time. This brochure lists the various types of probe available "off the shelf", but probes can on request be manufactured in other materials or to meet special needs.

Light-Duty Probes

Four designs are found - flow-through, thread mount, submersion and immersion. They are manufactured in PVC and can be used at temperatures up to 60°C and depths to 2 m. The electrode tip of the flow-through model extends approximately 1 cm into the tube. In other types the electrode tip is protected by the housing. The immersion type can be delivered in mounting lengths of 500, 1000 and 1500 mm. Please state length when ordering. These probes are fitted with a platinum/silver-silver chloride combination electrode.

Ordering Information

Light-Duty redox/ORP Probes, shipped complete with electrode and 50 ml check solution:

K02RF: Flow-through probe, 3/4" to 2", please state when ordering.

K02RM: Immersion probe, 500 mm. Other lengths on request.

K02RS: Submersion probe.

K02RT: Thread-mount probe, 1" BSP. Other thread sizes on request.

The flow-through, submersion and thread-mount probes can be ordered with a 1" pipe thread at the top. Please add suffix "TT" to the ordering number.

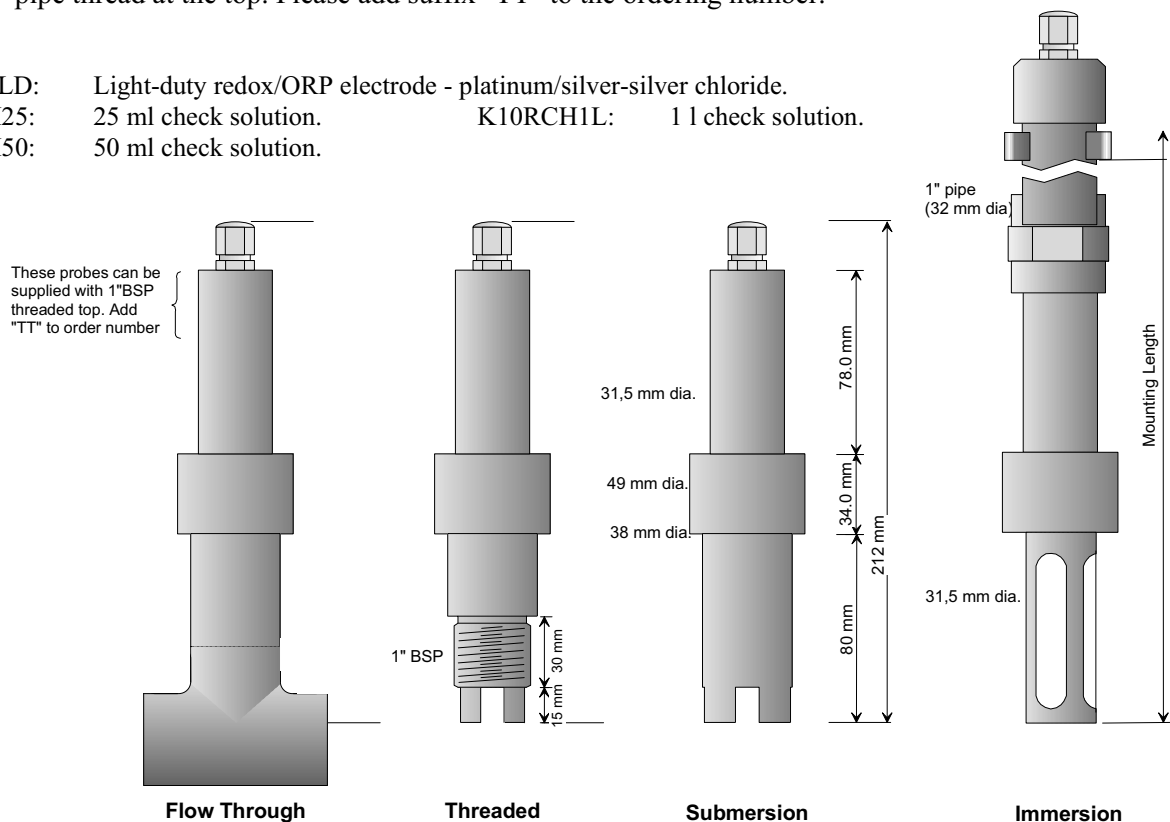
Spares:

K10RELLD: Light-duty redox/ORP electrode - platinum/silver-silver chloride.

K10RCH25: 25 ml check solution.

K10RCH1L: 1 l check solution.

K10RCH50: 50 ml check solution.



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Heavy Duty redox/ORP Probes

an overview - 2

All OxyGuard heavy-duty redox/ORP probes utilize the tried-and-tested principle of feeding a small, continuous supply of liquid electrolyte to the reference electrode part of the system. The OxyGuard probes, unlike others, use a special design of combination electrode that can be fed with electrolyte, either from a container at the top of the probe or from a separate container. The design permits pressurization of the container and reference electrolyte chamber with compressed air.

Heavy-duty probes can be made from PVC (max. 60°C), PP (max. 100°C) or PVDF (max. 130°C, on request). A version is available for fitting to an ND40 dairy flange. Immersion probes can be delivered with flange, screw-on pipe clamp or clip-on pipe clamp fixtures, and with immersion lengths up to 2000 mm. Submersion, threaded and flow-through probes can be specially made to suit the actual application for little or no extra cost. These probes are delivered with a separate electrolyte container that can be pressurized. As standard fitted with a platinum/silver-silver chloride electrode, but also available with gold or silver electrodes. Please note that most OxyGuard redox/ORP probes can now be supplied with a probe cleaning system that effectively cleans deposits from the probe tip without removing the probe from the process fluid and without noticeably disturbing the measurement.

Ordering Information

Heavy-duty redox/ORP probes, with platinum electrode, reference electrolyte container, 250 ml reference electrolyte, 50 ml check solution.

- K03FVORP: PVC flow-through probe.
- K03FPORP: PP flow-through probe.
- K03SVORP: PVC submersion probe.
- K03SPORP: PP submersion probe.
- K03TVORP: PVC thread-mount probe.
- K03TPORP: PP thread-mount probe.
- K03TVCORP: PVC thread-mount probe with probe cleaner.
- K03TPCORP: PP thread-mount probe with probe cleaner.

The flow-through, submersion and thread-mount probes can be ordered with a 1" pipe thread at the top. Please add suffix "TT" to the ordering number.

Please consult OxyGuard for details of the immersion type probe or gold or silver electrodes. Refer to the separate brochure for the hygienic probe.

Spares:

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| K10RELF: | Heavy-duty platinum redox/ORP electrode for flow-through, submersion and thread mount probe. |
| K10REFCON: | Reference electrolyte container. |
| K103M0500: | 500 ml 3 mol. KCL reference electrolyte. |
| K103M01L: | 1 l 3 mol. KCL reference electrolyte. |
| K10RCH25: | 25 ml check solution. |
| K10RCH50: | 50 ml check solution. |
| K10RCH1L: | 1 l check solution. |

These probes can be supplied with 1" BSP threaded top. Add "TT" to order number

