

# High-Temperature Application Wiring Kit

Whether it be the power, chemical, or oil & gas industry, high temperatures present challenges for EPC firms during the front-end engineering design phase of a project to ensure the process instrumentation specified works smoothly and seamlessly. Not only must the instrumentation selected be able to accommodate the high design temperatures of the process, i.e., hot reheat drains, cold reheat drains, condensate drip legs, the field wiring is subject to elevated temperatures as well. Oftentimes, the switch is held accountable when in reality it was a shortfall in the wire specification in close proximity to the high process temperature. Hence, the field wiring must be considered during the specification process.



Model B40  
Liquid Level Switch



Series 3  
Liquid Level Switch

Magnetrol® mechanical/buoyancy-based level switches reliably monitor the amount of condensate present in the drain pots or drip legs and initiate action to evacuate the condensate present in high temperature/pressure steam lines before it becomes problematic. The installation of high temperature field wire is standard practice around the drain pots or drip legs due to the elevated ambient temperatures. However, once the wiring is far enough from the application, e.g., switch location, this concern is alleviated.

To address this need, Magnetrol® has developed a kit comprised of ten-foot long, high-temperature wire to be installed along with our mechanical/buoyancy level switches. Our high-temperature wiring in conjunction with our instrument not only reduces the cost of running long lengths of expensive wire to the control room, it prevents the possibility of this being overlooked during the installation process. There is no shortage of situations where wiring incapable of meeting the extreme temperature was installed only to cause problems during plant commissioning and startup.

One end of the optional high-temperature wiring harness connects directly to the mechanical/buoyancy switch mechanism (relay) assembly with the other end terminated in a customer-provided junction/terminal box for continued routing using its lower-temperature counterpart. If it is required to be installed prior to shipment from Magnetrol®, it can only be installed in non-classified general purpose areas. If it is being installed in a classified area, it will need to be sold as a kit and the customer will be responsible for the area classification implications.

No. of Switches	Switch Type	Part Number	Order Quantity
1	SPDT	089-8304-001	1
2	SPDT	089-8304-001	1
		089-8304-003	1
3	SPDT	089-8304-001	2
		089-8304-003	1
1	DPDT	089-8304-002	1
2	DPDT	089-8304-002	2

For inquiries on these kits, contact [quotes@magnetrol.com](mailto:quotes@magnetrol.com).



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