

# HOBBS2002

PRODUCTS • APPLICATIONS • TESTING • TRENDS

JULY 2002

## High Pressure/Low Set Point Pressure Switch



A new variation to the 5000 Series Switch is in development at Hobbs. It is intended for use in applications that are susceptible to pressure spikes and high system pressures which can result in early switch failures. The burst rating has significantly increased from 1250 psi in the standard 5000 Series, to 4000+ psi on the new design. The physical dimensions are the same as the standard 5000 Series switches but the base has been strengthened by a cold forming process. Other design changes include revisions in the effective area of the pressure cavity and the size of the diaphragm button and the diaphragm o-ring. Set point ranges will be from 50 psi to 250 psi.

This switch is available for systems that can see pressure transients detrimental to long life and reliability such as braking, transmission, and hydraulic. Production is scheduled for fall 2002.

## High Intensity Lighting

Hobbs' Xenon Lamps are designed to hold up to the extreme demands of the off-highway construction and agricultural markets. HID technology is significantly more efficient than halogen and produces more light with less amperage draw.

Hobbs' HID lamps provide three times the light output compared to the average halogen lamp. The technology allows equipment to operate more safely with less load on the electrical system resulting in optimum alternator and battery life. Hobbs' HID features an electronic bulb/igniter/ballast system for maximum performance throughout a broad temperature and vibration range. This eliminates normal failure modes including filament breakage producing a life expectancy 10 times greater than a typical halogen lamp.

Features include an internal ballast; flood, trapezoid, and spot lens patterns; compact size; 5000 hour life; and completely sealed. The HID lamps are available in 12 and 24 VDC with stabilized amperage of 3.5 amps at 13.5 VDC.



## Maintenance Monitor with Tachometer

A new maintenance monitor by Hobbs will alert you when service is needed for oil, air cleaner and general maintenance. When the engine is operating, the meter displays RPMs and total hours of operation when turned off. The push button on the face of the meter allows the user to re-set the visual maintenance due indicator back to zero as well as program maintenance intervals. The meter uses an inductive pickup from the spark plug that starts the hour meter and RPM readout. Features include a long-life internal battery and sealing against moisture and dirt.



This meter is available in 2 screw and rectangular flush mount versions and is direct replacement for many OEM applications. Production is scheduled to start in late fall.

## 4 Position Key Switches

A new sealed 4 position key switch has been added to the key switch family. The key switch is developed for those applications that require a momentary/accessory position to the right. Because our switches are used in applications subjected to harsh environments, the switch was designed to withstand severe temperature extremes and contaminant intrusions. Water drainage from the tumbler escapes through weep holes. Ideal applications include diesels with glow plug, construction, agriculture and marine.



## Hour Meter/Volt Meter

A dual function meter providing a digital readout in hours and volts is in the development stage at Hobbs. This meter would be ideal for applications where space constraints do not allow a variety of gauges on the panel or even those applications that do not use instrument panels. The meter features non-volatile memory eliminating the need for an internal battery. A voltage range of 7-19 VDC is available with 2 screw, round and rectangular bezel styles. Typical applications include motor homes, recreational vehicles, compressors, generators, and lawn and garden. Expected availability is late summer. Further inquiries should contact Ed Gerken at 217-753-7797.



For additional information, quotations, and samples on the above products, please contact the Marketing Department at 217-753-7752.

## Hour Meters/ Battery Controllers



## Lighting Products



## Pressure/Vacuum Switches



### LCD, AC, and DC Hour Meters

Hobbs is the pre-eminent manufacturer of elapsed time measurement devices for testing, leasing, maintenance and warranty programs. LCD meters are available as a meter or counter and feature a 6 digit display, resettable and non-resettable options and non-volatile memory. AC electro-mechanical versions include 120 and 240 VAC, 50 and 60 Hz and shock resistant technology. DC electro-mechanical versions are totally sealed, have quartz accuracy within  $\pm 200$  ppm over entire voltage and temperature ranges.

### Pressure and Vacuum Switches



Hobbs has produced over 50,000,000 switches in the 0.5 to 3000 psi set point range for extended duty applications. Standard switches from 0.5 to 150 psi range are available with varieties of terminations and connectors.

Custom switches can be designed for applications that require set points up to 3000 psi that operate in extreme temperatures.

## Spec Sheets On Other Products



### Electronic Control Modules

A compact electronic module designed to control intermittent windshield wiper speed in agricultural and construction equipment, but can be configured with custom pulse rates and voltages.



### Emergency Stop Switches

Environmentally sealed, sliding contact, push/pull switch for construction, agricultural, marine, material handling, machine tools and mining.



### Battery Controllers

Battery controllers monitor the condition and the remaining capacity of an electric vehicle battery. These controllers are available in ranges of 12-80 VDC for most types of commercial batteries. Options include a controller with hour meter and service reminder. Relay lockout for low battery conditions to prevent damage to the battery is also available.



## Controls/Shifters



## Custom Products



## Electro-Mechanical



### Custom Controls and Shifters

Innovative designs provide economical solutions for control/shifter functions. Electro-mechanical and electronic direction and speed control shifters; turn signal control lever with multi-function capability; proportional retarder electronic interface control for braking systems; multi-function controls and throttle controllers for all-terrain vehicles.



### Electro-Mechanical Devices

Over 60 years experience in manufacturing custom switches and interior lighting for the automotive and truck markets. Electro-mechanical switches include sealed key switches, liquid flow switches; turn and emergency signal control flashers; automotive and medium duty application interior lamps and switches.



### Off-Highway Vehicular Lighting

Hobbs produced the first halogen sealed beams for agricultural use in the early 1980's. Product line includes halogen sealed beams, composites, custom designer lights, specialty lighting and indicator modules for vehicular and non-vehicular applications.



### Proportional Retarders

Shift lever handle designed to attach to the steering column of a vehicle to provide electronic signal for engine braking.



### High Intensity Discharge Lamps

Hobbs' HID lamps provide 3 times the light output compared to the average halogen lamp. The technology allows equipment to operate more safely with less load on the electrical system resulting in optimum alternator and battery life.



### Tach/Maintenance Monitor

Maintenance monitor will alert you when service is needed for oil, air cleaner and general maintenance. Displays total hours, maintenance hours and engine RPM.



### Hour Meter/Volt Meter

Dual function meter provides a digital readout in hours and volts in the ranges of 7 to 19 VDC. Features non-volatile memory.

## Battery Controllers

Hobbs' new line of battery controllers monitor the condition and the remaining capacity of an electric vehicle battery. The controllers are available in ranges of 12-80 VDC for most types of commercial batteries. Options include a controller with hour meter and service reminder. Relay lockout for low battery conditions to prevent damage to the battery is also available.

The potential markets and applications for these types of controllers include robotic material handling equipment, golf carts, floor sweeping and polishing equipment, scissor lifts, man lifts, aerial lifts, pallet movers, utility vehicles and scooters.



## Emergency "Shut Down/Stop" Switch

An environmentally-sealed emergency stop switch is now available featuring sliding contacts, multiple circuitry combinations, and positive disconnect function. Moisture and contaminants are isolated from the contact chamber by using a dual o-ring design. The switch can be mounted by inserting the 3/4" x16 threaded shaft through a hole in the panel and locking it into position. Operator disabling is reduced because the knob is securely attached to the switch body. The robust design allows the switch to operate in 100°C to -40°C. temperature extremes.



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**For additional product information visit [www.invensysensors.com](http://www.invensysensors.com).**

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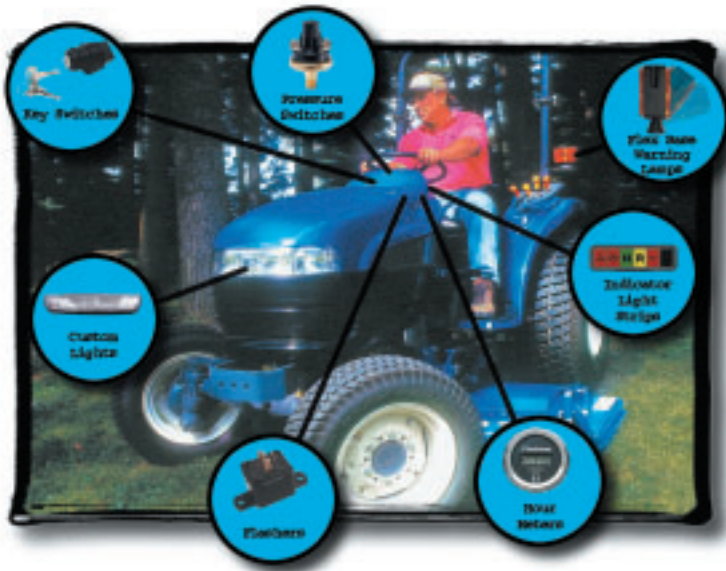
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