

DURCON



Aquarian 3000Visual Bi-Colour Gauge Illuminator and Display

The Aquarian 3000V is a high pressure ported water level gauge used to measure the water level in high-pressure boiler steam drums. The ASME Boiler and Pressure Vessel Code states that "ported gages or end-connected strip gages, shall be equipped to afford obvious visual discrimination between the appearance of water or vapor in the individual sections." The Solid State Bi-Colour Gauge Illuminator and Display attach to the 3000 psi ported gauge to produce a red or green image on the display. A red image indicates that steam is present and a green image indicates that water is present. The red/green image is produced by an array of solid-state light emitting diodes (LED's) and precision lenses that focus the image through the gauge body onto the display. The LED's replace the unfocused incandescent light bulb and colored glass that are currently used in conventional bi-colour illuminators.

The LED arrays and precision Plano-convex lens provide a bright, clear and unmistakable image in the presence of steam and water. The high intensity narrow beam LED's are mounted on an electronic printed circuit board with current limiting resistors. A precision 5VDC power supply provides the Illuminator with the exact current that is required for a constant clean image.

Options

- Intrinsically safe option for hazardous locations; includes zener barriers and 12VDC power supply
- Display hood, for increased visibility of display in bright sunlight
- Mirror or closed circuit video for remote viewing

Features

- All stainless steel construction provides corrosion resistance and long service life
- LED's are immune to failure from vibration
- Extremely efficient; converts virtually all energy into light, reducing power consumption and costs. Only 0.6 watts per port
- Average LED life is 11 years, resulting in reduced maintenance and service costs
- Absence of fragile colored glass prevents unnecessary repairs.
- Display and Illuminator can be installed on either side of the gauge to provide viewing flexibility.
- Side vents for internal cooling
- Indoor or outdoor installations
- Adjustable end plate for exact placement of viewing screen, providing an unmistakable image
- Easily removed for gauge port inspection or repair
- Illuminator and display are extremely light weight and compact
- Illuminator power supply can utilize any voltage from 100 to 230 VAC
- 6 LED's per port produce extremely bright image, visible at more than 100 ft away
- Level Display enables operator to easily view image without standing at a precise spot.

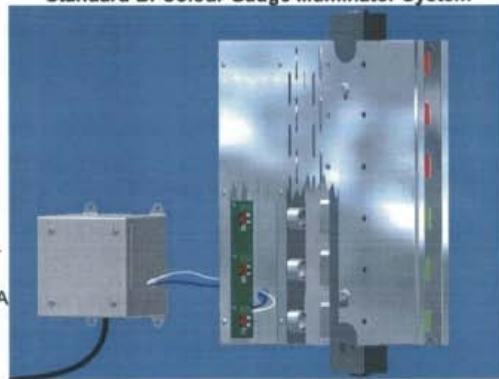


Half Full Gauge, Illuminator and Display Assembled



Standard Bi-Colour Gauge Illuminator System

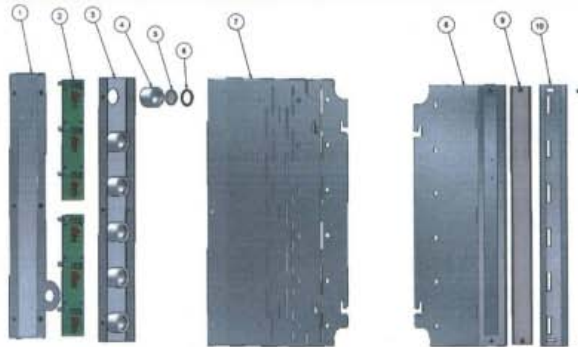
A small 5 VDC power supply (100 to 230 VAC input) in a NEMA 4 enclosure is provided with each Illuminator



Illuminator side cutaway for illustration



Part Number	Part Name
1	Back Panel
2	Printed Circuit Board
3	Lens Panel
4	Lens Holder
5	Lens
6	O Ring
7	Illuminator Cabinet
8	Display Cabinet
9	Display Screen
10	Adjustable Windows



Ordering

Call **Durcon Vice** to list the particular equipment design specifications, configuration, and options.

Patent Pending

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