

## PumpMeter – Pump Monitoring Unit



Etanorm PumpDrive with PumpMeter

### Applications:

- Cold generation/ distribution
  - Heat generation/ distribution
  - Water conditioning
  - Cooling lubricant distribution
  - Water extraction
  - Service water supply
  - Water withdrawal
  - Water treatment/ conditioning
  - Water distribution/ transport
  - Air-conditioning systems
  - Boiler feed systems
- Energy engineering

### More information:

[www.ksb.com/products](http://www.ksb.com/products)



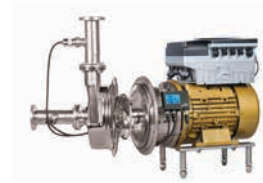
Etanorm PumpDrive with KSB SuPremE® and PumpMeter



Etaline PumpDrive with KSB SuPremE® and PumpMeter



Etabloc PumpDrive with KSB SuPremE® and PumpMeter



Vitachrom® with PumpDrive, PumpMeter and KSB SuPremE®-Motor



High-pressure ring-section pump BB4: HG, HGM, HGI

# PumpMeter – Pump Monitoring Unit

- Informative**
  - The suction pressure and discharge pressure as well as the differential pressure or head are alternately displayed.
  - The pump's current operating point is calculated and displayed on site.
  - A load profile is established using all data compiled in the course of the pump's operation.

**Energy-efficient**  
If significant energy saving potential can be realised: energy efficiency icon (EFF) is displayed.

**Straightforward**  
Pump and pump monitoring unit are easy to commission since PumpMeter comes factory-mounted to the pump.

- Low-cost**  
PumpMeter features a host of functions and as an extra benefit costs less than conventional measuring equipment such as pressure gauges or transmitters and their assembly.



KSB experts will help you to interpret the operating data and to make use of potential energy savings.

PumpMeter display	Interpretation of current operating point
	Very low to possibly zero flow rate.* Necessary to take action if pump is permanently operated within this range.
	Low flow.* Optimisation required in the long term.
	Optimum operating point. The pump runs at its best efficiency point.
	Excessively high flow rate, possibly above the maximum. Necessary to take action if pump is permanently operated within this range.

\*Depending on the characteristic curve type, no differentiation is made between the curve's first two quarters, i.e. during low-flow operating conditions, and the corresponding segments of the pump curve are displayed at the same time.

PumpMeter display	Load profiles (example)	Recommendation
	 Operation at or around the best efficiency point.	No action required. The pump runs at its best efficiency point.
	 The operating point moves across a wide range of the pump's characteristic curve.	Take action for optimisation. Significant energy saving potential can be realised, e. g. by using a variable speed system.
	 Borderline operating range; risk of pump and/or motor overload.	Take action for optimisation. Increased availability and energy efficiency can be achieved by trimming the impeller.



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