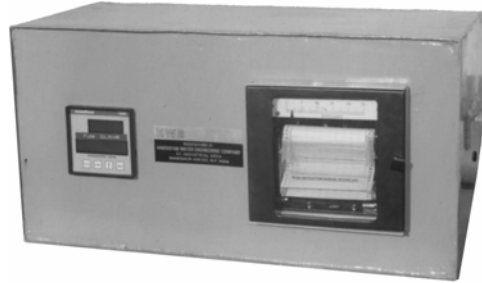


# HWE

## OPEN CHANNEL FLOW METERS (Electronic Digital Type)



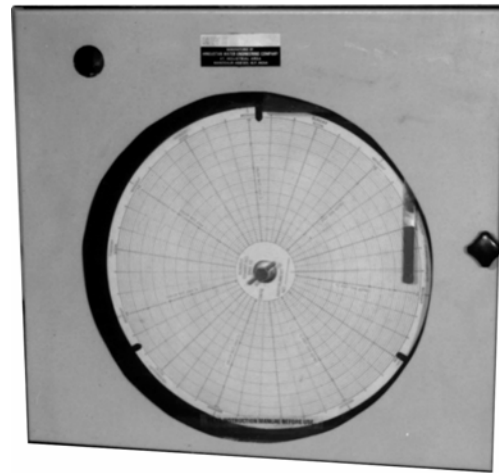
**Transmitter cum local  
Indicator**



**Remote Indicator,  
Integrator With strip  
chart recorder**



**Solid state sensor**



**Circular chart recorder**

Manufactured by :

### **HINDUSTAN WATER ENGINEERING COMPANY**

"HWE BHAVAN", 47, INDUSTRIAL AREA, **MANDSAUR** 458001 (M.P.) INDIA  
Email : hindustanwaterenggcom@yahoo.com, hweindia@yahoo.co.in, hweindia@dataone.in  
Ph. : 256133, 241382, 234533 Fax : 07422-232342

## HWE OPEN CHANNEL FLOW METERS

HWE Open Channel Flow Meters are designed to measure the rate of flow in open channels. These instruments are useful for fresh water as well as for variety of corrosive liquids, Sewage and liquid wastes.

Primary element or Head Producing Device in open channels is essentially either a Rectangular or V' Notch or a Parshall Flume. The rate of flow of a fluid over these devices can be computed from the knowledge of upstream depth of fluid or in case of a "drowned flume", the upstream and throat depths.

In HWE Open Channel Flow Meter the fluid level or head in the channel is transferred through a slot to the stilling well. From the stilling well the change in level is either detected by a solid state sensor or by a float. The sensors are capable of detecting small head changes and hence are very accurate.

In both cases the detection is transferred to a solid state primary calculation unit, which computes the flow and gives a linear output of 4-20mA DC, which is further calculated and displayed in engg. units directly

Standard equipment is provided with a local Indicator, one remote Indicator, Integrator and a Circular Chart Recorder, with weekly chart. Daily chart recorder may also be provided.

Display is 0.5" high red LEDs. The front of display units is screen protected against dirt etc. Non volatile memory is provided for integrated total in case of power failure.

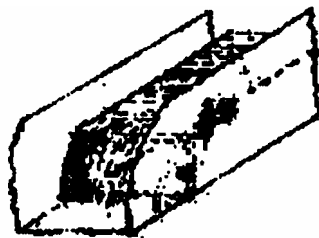
Options are available for equipment with local Indicator only, local Indicator + remote Indicator or only with remote Indicator, Integrator units.

The Instrument is provided with built-in power supply units. Consumption of the equipment is approx. 48 VA.

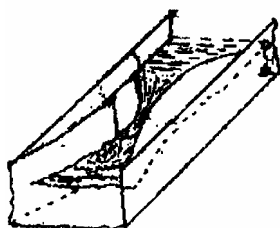
Accuracy is  $\pm 0.5\% \pm$  digit.

As an additional feature, low and high flow alarm facility can also be provided.

### HEAD PRODUCING DEVICES IN OPEN CHANNEL



Rectangular Notch without end contraction



Rectangular Notch without end contraction



Venturi or Parshall Flume