

---

## Standpipe Piezometer

Simple and economic measurement of groundwater pressures in soil and rock can be carried out using Casagrande type piezometers



# Standpipe Piezometer



## Overview



Simple and economic measurement of groundwater pressures in soil and rock can be carried out using Casagrande type piezometers.

Geosense® piezometers are made up of low air entry porous plastic or ceramic elements which are connected to standpipe tubing and lowered into a predrilled borehole. Alternative types may be driven or pushed into soft soil.

Where Casagrande type piezometers are being installed then the porous element is surrounded by filter sand and a Bentonite seal placed above this response zone.

Water level measurements are normally taken using a water level meter (dip meter) or in the case of artesian pressure a Bourdon pressure gauge is attached to the top.

### APPLICATIONS

- Monitoring of dams, reservoirs & embankments
- Slope stability
- Groundwater levels for dewatering & drainage
- Groundwater sampling
- Permeability testing
- Contaminated soil monitoring

### FEATURES

- Economic
- Simple to install
- Simple to use
- Variable filters
- Variable Material
- Can be used for artesian pressure

# Standpipe Piezometer

## Specifications

### POROUS PLASTIC ELEMENT

Material	HDPE
Mean pore size	60 microns
Permeability	$3 \times 10^{-4}$ m/s
Porosity	35%

### POROUS CERAMIC ELEMENT

Material	Alumo Silicate
Mean pore size	60 microns
Permeability	$3 \times 10^{-4}$ m/s
Porosity	45%

### PIEZOMETER TIP

Description	Diameter mm	Length mm
Plastic porous	27	320
Plastic porous	27	1000
Drive-in galvanised	27	400
Drive-in galvanised	27	1000
Ceramic	50	200
Ceramic	50	310

### STANDPIPE

Material	PVC
Outside diameter	26.6mm
Wall thickness	2.9mm
Internal diameter	20.8mm
Thread	BSPM/BSPF
Lengths	1 & 3m



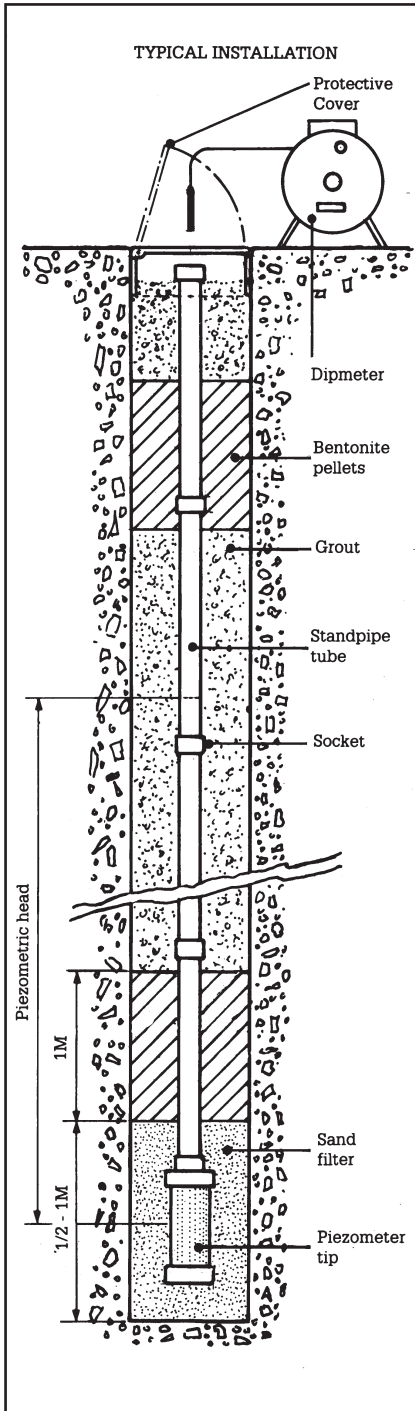
Ceramic Piezometer Tip



Drive-in Piezometer Tip

# Standpipe Piezometer

## Accessories

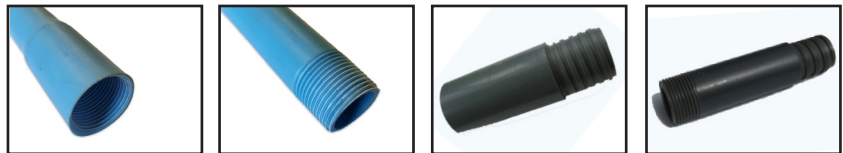


### TUBING & ACCESSORIES

Standpipe piezometer tubing is supplied standard with blown ends BSPM one end and BSPF the other end.

Alternative options include flush threading and sizes up to 2" which are used mainly for open standpipe piezometers.

Tubing is available in high strength PVC or galvanised steel for drive-in piezometers in 1 and 3 metre lengths.



### ACCESSORIES

Bourdon gauges

Adaptors

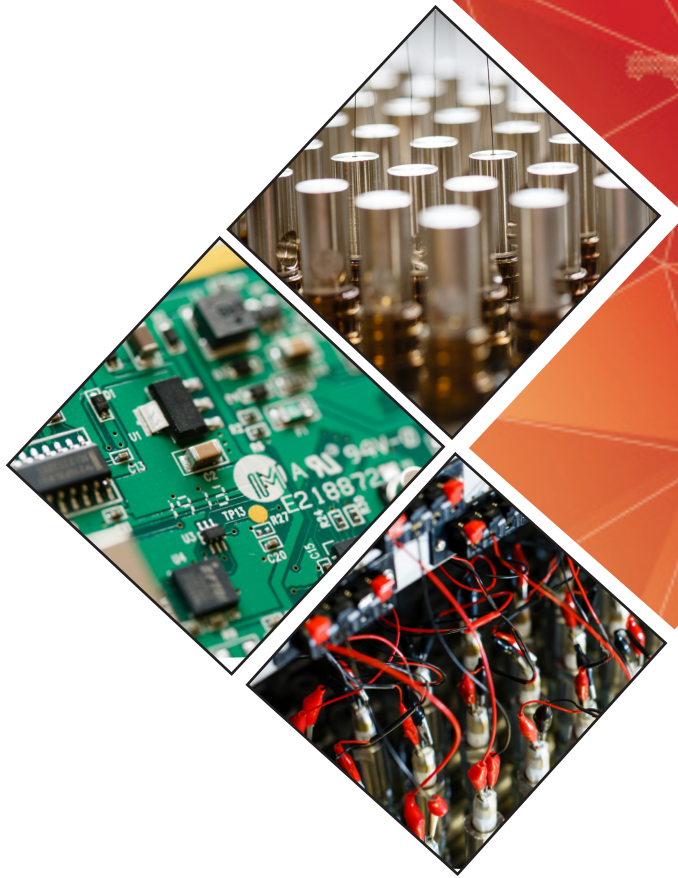
Caps

Dip meters

Bentonite pellets

Protective covers





## HEAD OFFICE

Nova House  
Rougham Industrial Estate  
Rougham, Bury St Edmunds  
Suffolk IP30 9ND  
England

+44 (0)1359 270457  
sales@geosense.com  
support@geosense.com

## NORTH AMERICA OFFICE

15 West 38th Street  
Suite 632  
New York  
NY 10018

+1 518-920-3483  
sales@geosense.com  
support@geosense.com

[www.geosense.com](http://www.geosense.com)

Specifications are subject to change without notice and should not be construed as a commitment by Geosense. Geosense assumes no responsibility for any errors that may appear in this document. In no event shall Geosense be liable for incidental or consequential damages arising from the use of this document or the systems described in this document. All Content published or distributed by Geosense is made available for the purposes of general information. You are not permitted to publish our content or make any commercial use of our content without our express written consent. This material or any portion of this material may not be reproduced, duplicated, copied, sold, resold, edited, or modified without our express written consent.