

ISO 18674-8:2023-09 (E)

Geotechnical investigation and testing - Geotechnical monitoring by field instrumentation - Part 8: Measurement of loads: Load cells

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	3
5	Instruments	3
5.1	General	3
5.2	Electric load cells	4
5.3	Hydraulic load cells	5
5.4	Instruments for specific applications	6
5.4.1	Anchor load cells	6
5.4.2	Load cell for cast-in-place concrete piles	7
5.5	Measurement accuracy	9
6	Installation and measuring procedure	9
6.1	Installation	9
6.1.1	General	9
6.1.2	Anchor load cells	10
6.1.3	Load cells at the base of cast-in-place concrete piles	10
6.1.4	Load cells for struts across excavations	11
6.2	Carrying out the measurement	11
6.2.1	Instrumentation check and calibration	11
6.2.2	Measurement	12
7	Data processing and evaluation	12
8	Reporting	13
8.1	Installation report	13
8.2	Monitoring report	13
Annex A (informative) Geotechnical applications		14
Annex B (informative) Measuring examples		15
Bibliography		33