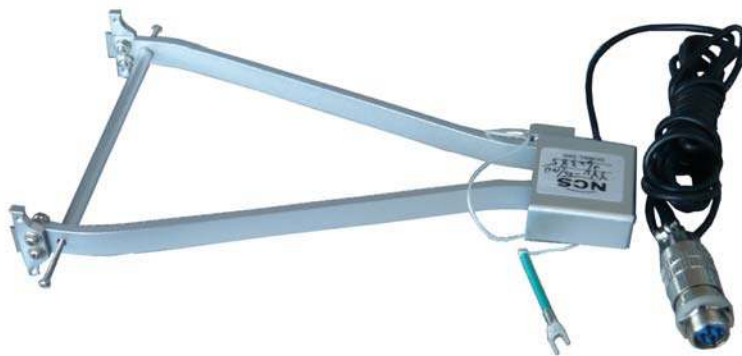


a measurable difference...

IDM[®]
instruments

Electronic Extensometer



ISO9000 Qualified

10 - 11 Colorado Court
Hallam, Victoria 3803 Australia
Ph: +61 3 9708 6885
Fax: +61 3 9708 6770
Email: idm@idminstruments.com.au
Web: www.idminstruments.com.au



Introduction

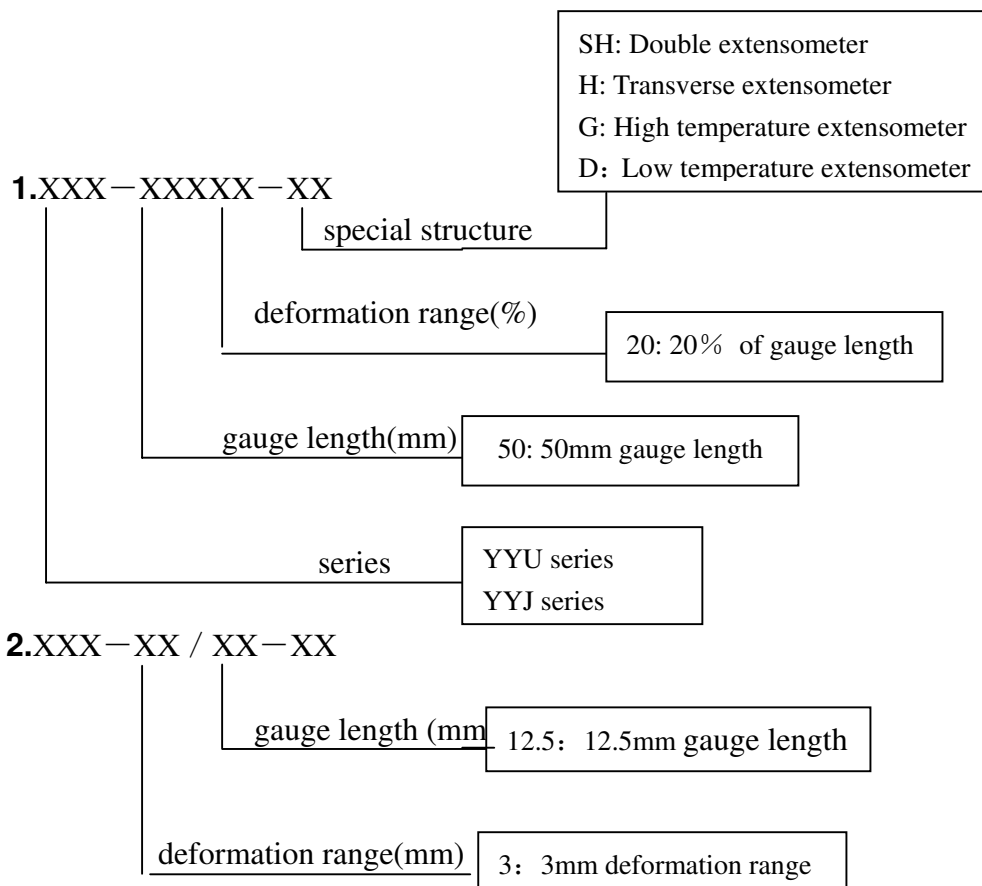
The electronic extensometers made according to resistance strain principle, and have **YYU**, **YYJ** two series. It has legerity structure, good stability and easy to operate. Have become the essential sensor for strain automatic testing and been widely used in various academies, scientific research institutes, factories, laboratories.

Application

1.YYU series mainly used to determine the axis strain .For example, modulus of elasticity E, prescriptive non-proportional extend stretch $R_{p0.01}$, prescriptive general extend stretch $R_{t0.01}$, various elongation percentage, strain hardening index n and other parameters.

2.YYJ series mainly used to determine Rupture Mechanics and transverse strain or radial strain,Such as Poisson' s Ratio μ 、 plastic strain ratio r、 K_{IC} 、 COD and so on.

Two ways of denomination



Specification

| Description | YYU | YYU-SH | YYJ | YYJ-SH |
|----------------------------|---|-------------------|----------|---------------------|
| Gauge Length | 500mm 250mm 200mm 100mm 50mm 25mm 20mm | 50mm 25mm | 10mm 5mm | 25mm 20mm 12.5mm |
| Strain resistance | 350 Ω | | | |
| Resolution of output value | 2mV/V | | | |
| Deformation Range | 5mm 10mm 25 mm | 5mm 10mm 25 mm | 4mm 2mm | 25mm 20mm 12.5mm |
| Supplying voltage | ≤6V | | | |
| Accuracy | ±0.5% of FS | | | |

Brochure

| Model | Gauge Length (mm) | Deformation (mm) | Error | Note | | | | |
|-----------------------------------|-------------------|------------------|---------------------|------------------------|----------------------------|-------------------------|--------------------------------|-------------------------------|
| YYU | 500 | 5 | Better than 0.1% | For steel wire testing | | | | |
| | 250 | | | | | | | |
| | 200 | | | | | | | |
| | 100 | | | | | | | |
| YYU-SH | 50 | 10 | | Better than 0.1% | For common tension testing | | | |
| | 50 | | | | | | | |
| | 25 | | | | | | | |
| YYJ | 10 | 4 | | | Better than 0.1% | For mean strain testing | | |
| | 5 | | | | | | | |
| YYJ-H | 25 | 3 | | | | Better than 0.1% | For fracture mechanics testing | |
| | 20 | | | | | | | |
| | 12.5 | | | | | | | |
| YYU-1/ 100-T | 100 | 1 | | | | | Better than 0.1% | Concentricity extensometer |
| YYJ-8/6-N | 6 | 8 | | | | | | Torsion extensometer |
| Digital display extensometer | | 5 10 25 | For tension testing | | | | | |
| High-low temperature extensometer | | 5 10 25 | For tension testing | | | | | |
| YYU-SH | | Within 1 mm | | | | | | For testing concrete and rock |