

# ULE-50

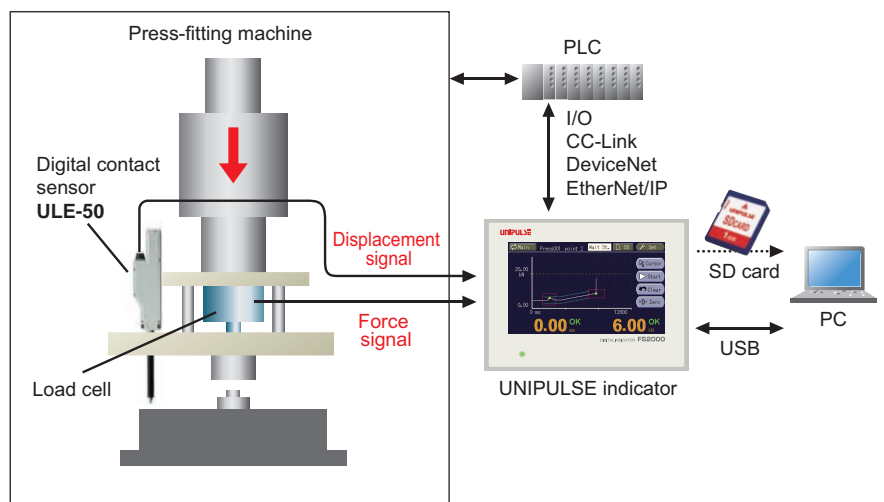
## DIGITAL CONTACT SENSOR



Digital contact sensor that is easily connectable to UNIPULSE indicator. You can perform OK/NOK judgment with a Force vs Displacement curve.

- Easy connection.  
As ULE-50 has a built-in amplifier, no additional device is required.  
Just connect ULE-50 to a UNIPULSE indicator using a cable, then it will be activated instantly.
- Wide measuring range & high-accuracy  
Measuring range : 50mm  
Resolution: 2.5μm
- High noise immunity  
RS-422A communication provides stable data transmission.
- Applications
  - Press-fitting  
(Force vs Displacement curve can be shown on a UNIPULSE Indicator)
  - Inspections of a positioning stage
  - Height measurement in swaging process
  - Height measurement in screwing process

### Example of use : Press-fitting with Force vs Displacement measurement.



### Specifications

Model	ULE-50	
Method	Incremental	
Measuring range	50	mm
Resolution	2.5 (when connected to a UNIPULSE indicator)	μm
Measuring force	Downward	Approx. 2.8 N(at 50mm)
	Side	Approx. 2.6 N(at 50mm)
	Upward	Approx. 2.3 N(at 50mm)
Operational temp. range	-10 to +40	°C
Storage temp. range	-20 to +60	°C
Output signal	Differential line driver signal with 90° phase difference (RS-422A compliant)	
Cable	Flexible cable 2m	
Cable color	Red (PWR+), Blue (PWR-), Pink (A+), Blown (A-), Yellow (B+), Green (B-), Shield	
Weight	Approx. 350	g
Power supply voltage	DC 4.5 to 30	V
Current consumption	Approx. 0.1A or less	A
Accessories	ULE-DB:Dust boots	

### External dimension

