# SMD33WX Wireless Hydraulic Load-Displacement Integrated Sensor

## Product Introduction

• Standard Zigbee wireless signal eliminates the need for conduit wiring, significantly reducing construction costs.

• Features a hydraulic lifting I-beam frame, planar load-bearing structure, microcontroller data acquisition system, high-precision instrumentation amplifier, efficient DC/DC conversion circuit, along with A/D conversion, data redundancy coding, and RF modulation units;

• Specifically designed for wellhead frames (commonly known as "donkey triplets") to enable continuous pumping tests during performance curve acquisition;

• Real-time acquisition of pumping stroke, stroke rate, rod load, and performance curve data;

• Low-power design meets the requirements for high-density data collection at frequent intervals during performance curve and oil measurement operations.

## Technical Indicators

| Number | Type | Technical parameters |
|---|---|---|
| 1. | Nominal load range | 0～120KN    0～8m |
| 2. | Power supply | 4.2 VDC 2800mAhlithium battery |
| 3. | Signal | Zigbee |
| 4. | Linear | ≤1%F.S |

| 5. | Repeatability | ≤1%F.S |
|---|---|---|
| 6. | lag | ≤1%F.S |
| 7. | Output smoothness | ≤1% |
| 8. | Operating Temperature | －40～＋70℃ |
| 9. | Insulation Resistance | 2000 MΩ |
| 10. | communication protocol | ZigBee PRO 2007，Transmission Distance (Open Line of Sight)≥ 100m |
| 11. | Protection type | IP65 |