

# Production Dual (X-Y) Caliper (PDC)

## Provides accurate measurement of casing or tubing ID

### Applications

- Determination of “X” and “Y” diameters at 90°
- Measurement of casing deformation and major corrosion
- Detection of scale build-up in casing or tubing
- Correction of Spinner derived fluid velocity for various casing or Open Hole completion diameters
- Identification of IDs to correlate with changes in holdup patterns

### Features and Benefits

- Combinable with other Sondex **Ultrawire™ production logging tools**
- Fully Collapsible arms, down to tool diameter
- Memory and surface read out operations

The Sondex **Production Dual Caliper (PDC201) tool** consists of two independent Calipers (X and Y) set perpendicular to each other, which measure the internal diameter of the well casing. The PDC is traditionally run centralised in a production logging toolstring. The caliper arms are spring-loaded to exert a constant radial force on the casing wall over the full measurement range. Both sets of arms can independently collapse down to tool diameter to pass through restrictions.

The sensors are Linear Variable Differential Transducers (LVDTs). The position of the caliper arms moves a Sensing Sleeve over the

LVDT resulting in an output proportional to diameter. The X and Y sensors are independent.

The tool supports both UltraWire and UltraWire2 telemetry bus standards. UltraWire2 provides increased operational flexibility and additional data to facilitate asset performance management.



### Specifications

	PDC201
Temperature rating	350°F (177°C)
Pressure rating	15,000 psi (103.4 MPa)
Tool diameter	1 11/16 in. (43 mm)
Tool length	33.94 in. (862 mm)
Tool weight	12.81 lb (5.81 kg)
Toolbus	Ultrawire production logging tool
Measurement Range	2 in to 9 in
Resolution	0.01 in (0.254 mm)
Accuracy	0.1 in (2.54 mm)
Sensor measure point	11 in (X) and 7.5 in (Y)
Current Consumption	27 mA – 32 mA
Materials	Corrosion resistant throughout