

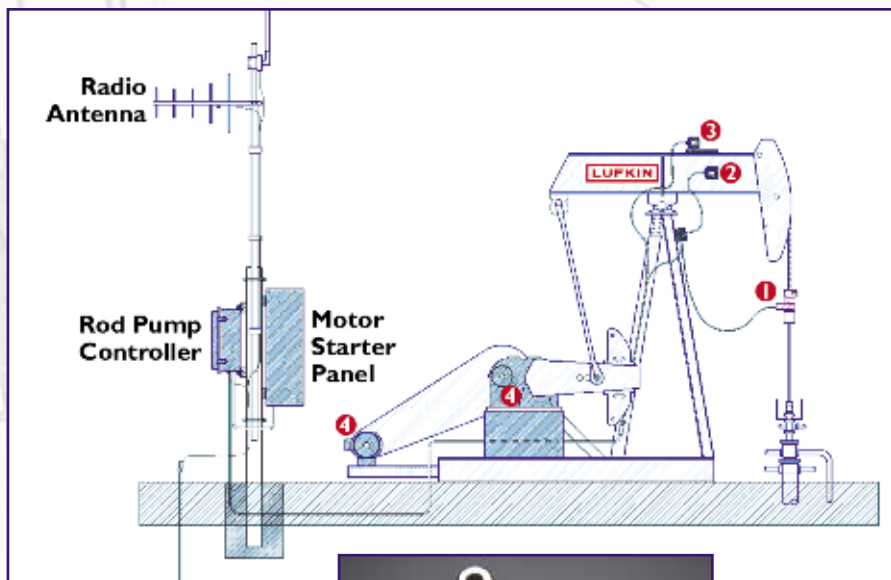
# RPC TRANSDUCERS

## ROD PUMP CONTROL

Lufkin Automation offers RPC transducers for all the different pumping unit types. The transducer selection allows the user to choose the accuracy of the system and consider the long-term maintenance requirements. Each transducer is designed to interface with Lufkin RPCs and is manufactured to Lufkin's quality standards.

### About Lufkin Automation

Lufkin Industries, Inc., acquired Nabla Corporation in 1997 and Delta-X Corporation in 1998 to form a new division known as Lufkin Automation. This new division brings the industry leaders of artificial lift design, analysis and control together with a combined 60 years of knowledge.



1 Load cell



3 101TL weld-mounted (top) and clamp-on (bottom) transducer



4 Motor and crank transducers



2 Inclinometer

## RPC transducer technical specifications

### Load cell

Rated capacity: 30K or 50K pounds (specify)  
Overload rating without damage: 200% rated capacity  
Weight: 8.5 pounds  
Output (mV/V):  $2.0 \pm 1\%$   
Operating temperature range:  $-40^{\circ}\text{F}$  to  $175^{\circ}\text{F}$   
Transient voltage protection: MOV to case  
Factory calibrated

### Inclinometer

Ratiometric electronic dynamometer  
Supply voltage range: 5–16 Vdc  
Supply current: 3 milliamps  
Output: 30 mV/degree  
Linear range:  $\pm 45$  degrees

### Beam transducer

Wheatstone bridge circuit  
Gauge section thickness: 0.030 in.  
Input impedance: 350 ohm/263 ohm  
Input voltage range: 5–10 Vdc  
Output with 8 Vdc excitation (per installation)  
Offset range: 0.32 to 32 mVdc  
Sensitivity: 2 mV/V increase with axial pull change from 500 to 1000 lb  
Weld mount to top of walking beam  
Field calibration required

### Clamp-on beam transducer

Specs same as weld-mounted beam transducer  
Clamp-on mount to edge of walking beam flange

### Motor and crank transducers

Unipolar Hall effect switch  
Magnets mounted on crank arm and motor shaft  
Input voltage range: 4.5 to 24 Vdc  
Output open collector: sink 25 mA max  
Typical sensitivity: 350 gauss  
Operating temperature range:  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$

### Position switch

Inductive sensor  
ABS plastic construction  
Input power: 10 to 65 Vdc, 200 mA  
Output NPN (sinking)  
Rated operating distance: 30 mm  
Operating temperature range:  $-25^{\circ}\text{C}$  to  $70^{\circ}\text{C}$

## Domestic Offices

**Houston, Texas (Headquarters)\***  
11375 West Sam Houston Parkway South  
Suite 800  
Houston, Texas 77031  
(281) 495-1100  
Fax: (281) 495-6333

**Odessa, Texas**  
7601 E. Interstate 20  
Odessa, Texas 79765  
(432) 697-2228  
Fax: (432) 697-0192

**Bakersfield, California**  
31127 Coberly Road  
Shafter (Bakersfield), California 93263  
(661) 746-0511  
Fax: (661) 746-1029

**Oklahoma City, Oklahoma**  
2300 S. Prospect  
Oklahoma City, Oklahoma 73129  
(405) 677-0567  
Fax: (405) 677-7045

**Rocky Mountain Region**  
1600 Broadway, Suite 2400  
Denver, Colorado 80208  
(303) 542-1950  
Fax: (303) 892-9299

## Canadian Offices

**Calgary, Alberta, Canada**  
1050 McDougall Place  
808–4th Avenue S.W.  
Calgary, Alberta, Canada, T2P 3E8  
(403) 234-7692  
Fax: (403) 265-6913

## International Representatives

Argentina, Brazil, Columbia, England, France,  
India, Mexico, Russia, Trinidad, Venezuela,  
Austria/Germany, Belarus, China, Egypt &  
Middle East Region, Indonesia



Houston Manufacturing\*