

# PRECIMETER

*~Casting Evolution~*

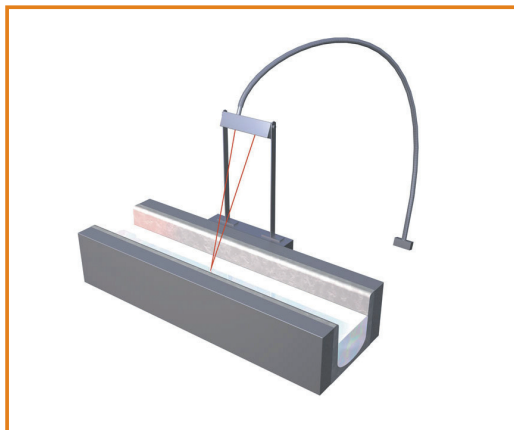
## ProH Digital Camera Sensor

- for molten metal level control



- Laser class II
- Compact design
- Easy to install
- Stable readings even in harsh conditions
- No safety measures required
- PC Software included

# ProH Digital Camera Sensor



The Digital Camera Sensor Family **ProH** from Precimeter combines high performance laser triangulation with all the control functions you need to maintain an accurate molten metal level. The patented digital camera technology in the Precimeter sensors (US patent no 4,911,551), results in very high performance and accuracy. This enables the use of Laser Class II, which means that no special safety measures are required. The advanced technology makes it possible to give stable readings even when the material reflectivity changes dramatically and in harsh conditions like steam and smoke. The built in PI controller eliminates the need for an external industrial controller. This reduces the system cost and set up time.

## Advantages

- No safety measures required, no yearly eye examination, no laser officer required.
- Stable readings even in difficult environments.
- Laser class II approved
- Easy to install
- Compact design
- Metal Level Control systems adapted to our actuators and sensors are available.
- **PC Software** gives access to all sensor parameters.

Technical Specifications		Technical Specifications	
<b>Sensor type:</b>	<b>ProH CD200R200</b>	Light source:	Laser diode 635 nm (visible red)
<b>Clearance Distance:</b>	200 mm (7.9")	Laser power:	<1 mW, Class II
<b>Measurement Range:</b>	200 mm (7.9")	Sampling frequency:	252 Hz
<b>Sensor type:</b>	<b>ProH CD240R325</b>	Communication:	RS232-C
<b>Clearance Distance:</b>	240 mm (9.4")	Analog output:	4-20 mA (optional 0-10 VDC, 0-20 mA)
<b>Measurement Range:</b>	325 mm (12.8")	Temperature output:	4-20 mA (0-100 °C)
<b>Sensor type:</b>	<b>ProH CD250R500</b>	Resolution:	R/4096
<b>Clearance Distance:</b>	250 mm (9.8")	Non-linearity:	±0.2 % of measurement range
<b>Measurement Range:</b>	500 mm (19.7")	Power requirement:	18-32 VDC, < 1 A
<b>Sensor type:</b>	<b>ProH CD450R300</b>	Relative humidity:	25-85 % (non condensing)
<b>Clearance Distance:</b>	450 mm (17.7")		
<b>Measurement Range:</b>	300 mm (11.8")		
<b>Sensor type:</b>	<b>ProH CD700R300</b>		
<b>Clearance Distance:</b>	700 mm (27.6")		
<b>Measurement Range:</b>	300 mm (11.8")		
<b>Sensor type:</b>	<b>ProH CD900R500</b>		
<b>Clearance Distance:</b>	900 mm (35.4")		
<b>Measurement Range:</b>	500 mm (19.7")		
<b>Sensor type:</b>	<b>ProH CD800R1500</b>		
<b>Clearance Distance:</b>	800 mm (31.5")		
<b>Measurement Range:</b>	1500 mm (59.0")		

## Contact Precimeter Group

### EASTERN AND CENTRAL EUROPE DIE CASTING AND EM PUMPS

Carli Precimeter GmbH  
Kirberg 5/ 51674 Wiehl/ DE  
Phone: +49-2262-701624 Fax: +49-2262-701625

### WESTERN EUROPE, MIDDLE EAST, AFRICA, ASIA AND AUSTRALIA

Precimeter Control AB  
Östra Hamnen 7/ SE-475 42 Hönö/ SE  
Phone: +46-31-764 55 20 Fax: +46-31-764 55 29  
www.precimeter.com  
info@precimeter.com

### NORTH, CENTRAL AND SOUTH AMERICA

Sentech Precimeter Inc.  
2215 S. 48th Str. #C / Tempe, AZ 85282/ U.S.A  
Phone: +1 (480) 829-1923 Fax: +1 (480) 894-5546

## Local Precimeter Contact