

## **CONGAUGE<sup>LB6755</sup>**

### **STEEL & POWDER LEVEL MEASURING**

One compact unit reads liquid steel & powder level simultaneously



#### **SMS CONCAST AG**

Toedistrasse 9  
8027 Zurich, Switzerland

+41 44 204 65 11  
[concast.info@sms-group.com](mailto:concast.info@sms-group.com)

[www.sms-concast.ch](http://www.sms-concast.ch)

## STEEL & POWDER LEVEL MEASURING

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Getting the steel and powder levels right in a continuous caster supports smooth casting and higher product quality. Until now, steel level sensors have ignored powder thickness. Establishing this vital parameter required an additional device, adding costs and complexity. SMS Concast's CONGAUGE<sup>LB6755</sup> is a new, multitasking radiometric sensor that determines both the steel level and the thickness of the powder layer in the mold tube. Product quality goes up and stoppages go down.

### Application

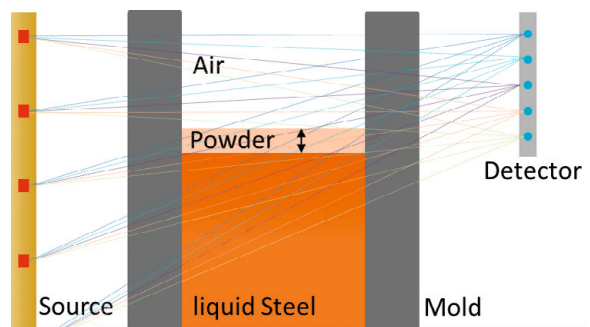
SMS Concast's CONGAUGE<sup>LB6755</sup> is a powerful new tool for accurate mold level control (MLC) in continuous casters. It combines the industry standard sensor in an innovative design: a plurality of small crystals instead of the conventional single-crystal layout.

This configuration enables the CONGAUGE<sup>LB6755</sup> to capture both the steel level and the thickness of the powder layer. Two key readings from one device.

CONGAUGE<sup>LB6755</sup> can be fitted to new or existing continuous casters for SBQ billets, blooms, beam blanks or slabs. CONGAUGE<sup>LB6755</sup> can also be used by bloom producers employing non-radiometric mold level controls.

CONGAUGE<sup>LB6755</sup> is an accuracy upgrade that fits most continuous casters:

- Plug-and-play replacement for existing LB6752 units in any closed casting environment
- Also replaces many other MLC devices
- Can be integrated into an automated powder feeding system



**CONGAUGE working principle with standard Co60 source and new detector.**

### Ease of use and maintenance

- Conventional calibration procedures, with one semiautomatic calibration rig per plant
- Proprietary algorithms assure highest accuracy of level readings

### For best results

Combine the CONGAUGE<sup>LB6755</sup> with a CONFEEED powder feeder. Accurate powder thickness data and automatic feeding reduce powder consumption and increase quality. Please contact us for further information.

### YOUR ADVANTAGES

- **Improved surface quality** due to constant thickness of powder layer above the meniscus
- **Improved yield due to reduced downtime:** The two measurements from CONGAUGE<sup>LB6755</sup> support a stable casting process
- **Easy upgrade:** Compact size makes CONGAUGE<sup>LB6755</sup> easy to install in almost any caster

### TECHNICAL DATA

|                        |                                         |
|------------------------|-----------------------------------------|
| <b>Accuracy</b>        | same as LB6752, also for powder         |
| <b>Operation</b>       | HMI-controlled parameters through LB452 |
| <b>Casting section</b> | 100 up to 400 mm                        |
| <b>Front-End</b>       | Solid state silicon photomultiplier     |



**New CONGAUGE<sup>LB6755</sup> detector (from backside) and semiautomatic calibration rig.**