

Continuous tundish steel level measurement

Monitors true metal level in continuous casting and atomising tundishes in order to maintain correct steel pressure head, minimise drain level to optimise yield and improve production quality.

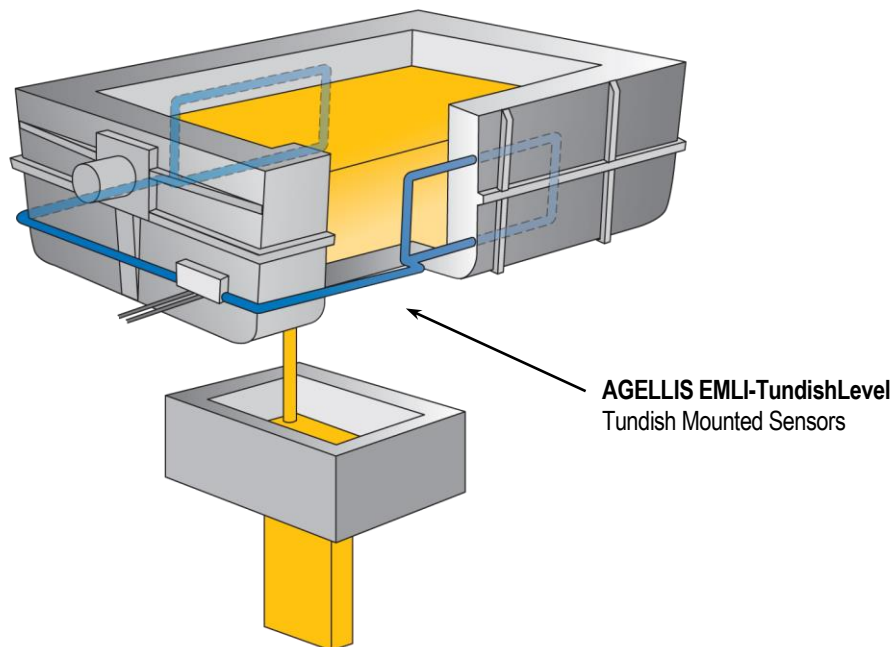


The Agellis EMLI-TundishLevel continuously monitors the true metal level in the tundish during casting or atomising. The system provides outputs to control the flow from the ladle in order to maintain desired operating levels, without being affected by the presence of slag or protection powder. The system also provides means to control drain levels when emptying the tundish.

The EMLI sensors and cabling are customised to fit the tundish and the caster/atomising area. The sensors are designed for extreme conditions and are mounted in a protected position against the inside of the tundish wall.

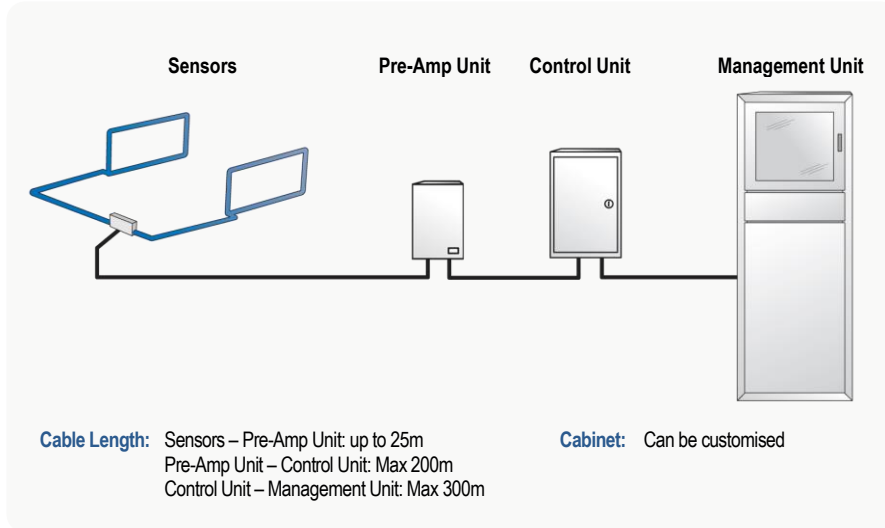
The system can also be used to monitor metal flow in launders and runners.

The Management Unit is capable of running multiple EMLI systems. This enables the user to expand the system to run extra tundish systems or add slag detection and mould level measurement systems. All EMLI system types have compatible parts, which means stocking spares is cost effective and reduced to a minimum.



Agellis follows a policy of continual improvement of design and we must therefore reserve the right to supply equipment differing in detail from that described herein.

System Overview

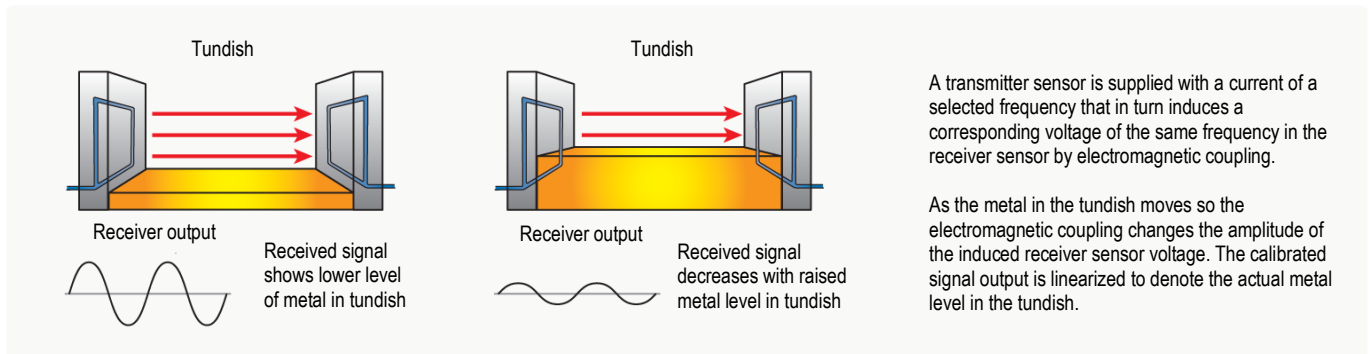


Technical Information

Power Supply:	90 - 230 VAC 50/60 Hz max 500 W
Resolution:	+/- 1 mm
Precision:	+/- 1% of measurement range
Minimum Sensor Life:	12 months or more
Mounting Specification:	Designed to endure the industrial environment mounted in a tundish
Cooling:	Sensor – no cooling required Main Electronics Unit – ambient temp. range up to +55°C
Safety Standard:	Complies with known safety standards

Note: Above data can vary depending on tundish size shape and local conditions

Principles of Operation



User Benefits & Advantages

- | | |
|-----------------------------|---|
| Automation | <ul style="list-style-type: none"> – Continuous true steel level measurement. – Enables reduction in manpower. – Automation of casting process. – More consistent machine operation. |
| Cost effective | <ul style="list-style-type: none"> – Reduced maintenance. – Optimise yield at every drain. |
| Process improvements | <ul style="list-style-type: none"> – Consistent drain control. – Minimised intermixed areas. – Avoid slag in mould & breakouts. – Consistent ferrosstatic pressure in mould. – Faster and consistent caster operation. |



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