

Data transmission at its best with ~1km coverage from OES to the melting platform!



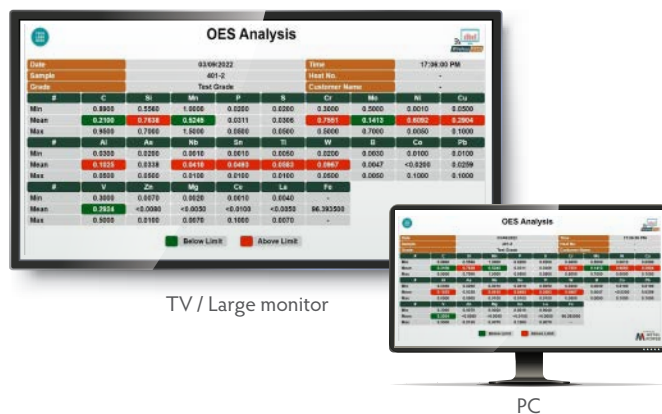
For any foundry, achieving the desired grade while also optimizing cost requires testing/ verification of melt chemistry on a Spectrometer (OES). Since the OES requires an air-conditioned and dust-free environment, it is installed in a lab quite far from the melt platform. To enable higher productivity users install a Remote Transmission Display System (RTDS) for transmitting Lab results to the melt platform.

Traditional RTDS have many limitations, including extensive and expensive wiring from the Lab to the screen, small number of elements displayed, no flexibility to change set of elements displayed, no capability to display the results on different screen (in cases where there are multiple furnaces) etc. Also, since RTDS is normally a third-party system, the process of transmitting results is manual and tedious.

Metal Power's RTDS marks a generational shift in RTDS technology. It completely removes all these limitations and adds a lot more features that no competitive RTDS offering can match! Our RTDS offers a solution that completely revolutionises what users could and should be demanding from such a system!

A new-generation wireless RTDS

Metal Power's RTDS is completely wireless (no cabling required), allows one-to-many connectivity to screens and is also screen-agnostic. Users can decide what type of screen they want to use! It is integrated directly into the OES operating software and designed to be "single-click" in its working. Further, it offers a completely secure network and unlimited flexibility in templates and reporting. In every single way, MPA's RTDS sets a new benchmark. What's even better is that it's also the most economical RTDS solution available!



Furnace 1



Furnace 2



Furnace 3



Furnace 4

~1km
((()))



Super convenience at your fingertips

Smart & Secure

Completely wireless interface (no wiring required). Data is transferred wirelessly from the spectrometer lab to the melting platform using a highly secure protocol.

Maximum Coverage

Data can be transmitted over a 1km radius with clear line of sight.

Customized Templates

Unlimited options to customize the display screen; 5+ ready-to-use templates supplied with the unit. Users can display their own logos, different header data etc.

Broadcast of messages

Pass on any information or messages from your Lab to the Melt platform.

Multi-Display

Display can be routed from the same OES to any of multiple screens on the melt platform, with a single-click – solving a key issue for large companies with multiple furnaces.

Salient Features

- Single Click; transmit results in seconds!
- Energy efficient long-range network with a radius up to 1 km*
- Transfer data across physical barriers and multiple floors (layout and topography dependant)
- Full results display (all elements!)
- Fully customizable for order of elements / change of elements by matrix/alloy etc. (no hard coding)
- No need to restrict any aspect of display (decimal places etc.)
- Truly mirrors your Analysis screen on the Melt Platform – no loss of data!
- Low Power Consumption
- No Internet connection required
- Fully customizable and ready-to-use display templates with Company Name, Date & Time, Sample Name, Heat Number, Grade Name, Operator, List of elements, Grade Specifications etc.
- Colour Indications - Analysis readings within limit/out of limits colour coding feature
- Compatible with any TV/Smart TV/Monitor/Display of any screen size (through HDMI Port)

* Clear line of sight needed



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