



## MELTCONTROL

is the digital analysis and data visualization tool for melt quality control

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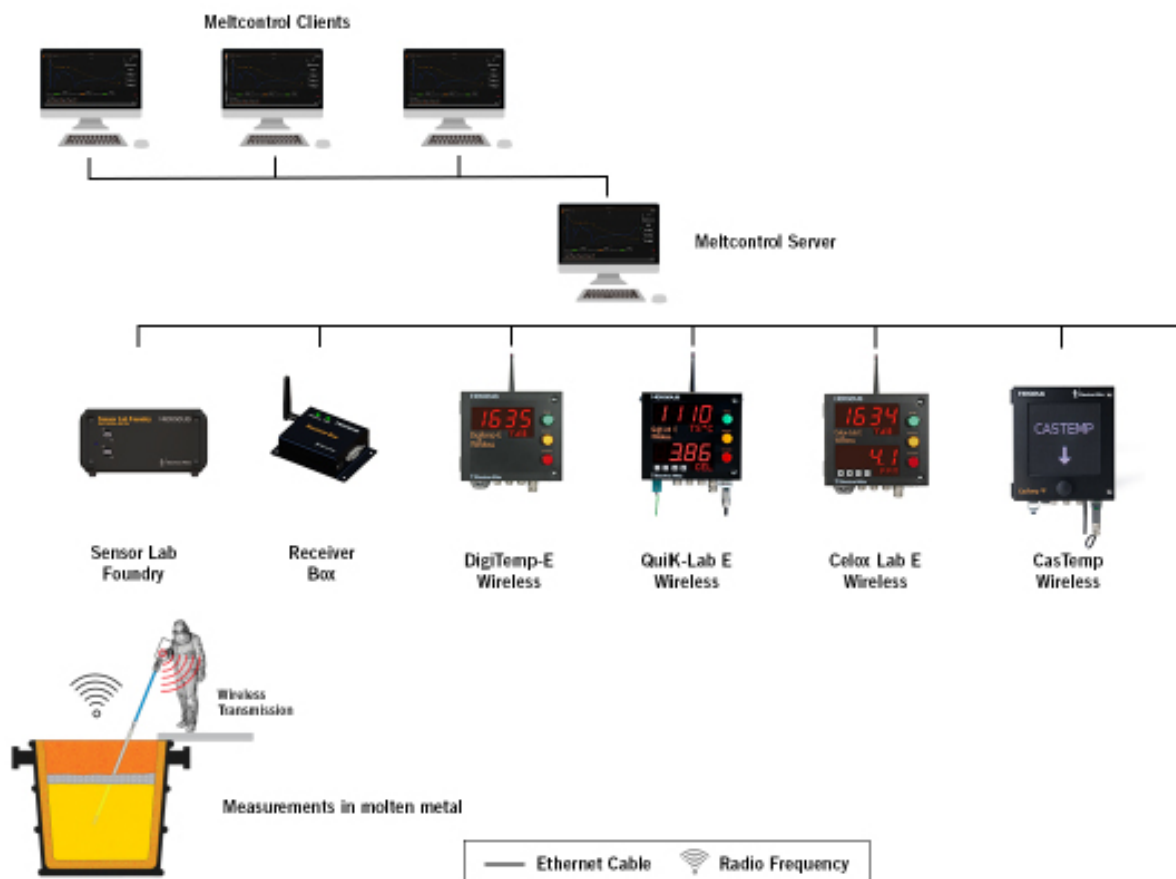
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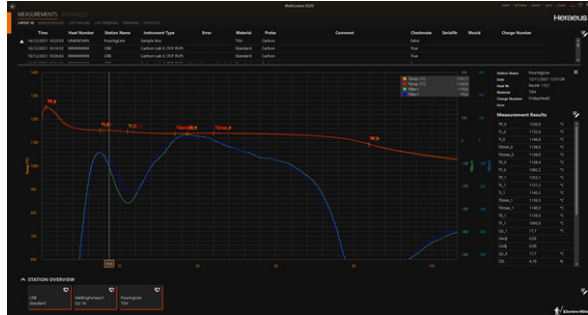
## Introduction

MeltControl is the digital analysis and data visualization tool for melt quality control that gives engineers and managers access to all data. It logs and displays real-time measurement curves from all Heraeus Electro-Nite instruments.

## Benefits

- A smooth connection of a wide range of instruments (QuiK-Lab® E, DigiTemp® E, Digilance, Celox® Foundry, ...)
- Different trending and alert options
- Measurements can be viewed at the same time at different client computers
- Range and formula definition for different cast iron materials
- Possibility to add various engineer or operator comment fields
- Monitoring productivity of the melting and pouring departments
- The MeltControl system can be incorporated in your existing factory network (a client-server setup). See the picture below showing MeltControl installation possibilities.





Measurement result screen with latest 10 measurements

### The MeltControl Software

Once the Heraeus Electro-Nite measurement devices are configured and connected, all measurements are sent automatically to the MeltControl software. MeltControl captures the measurement curves and displays them in real-time.

When the measurement was saved into the database, MeltControl has a wide variety of possibilities for further analyses.

- Measurement range selection for every measured and calculated result
- Various editable comment fields
- Measurement comparison
- Trending (online and offline)
- Evaluation algorithm for thermal analysis of QCTCov cups in combination with Quik-Lab® E and SensorLab Foundry operating in full control
- Extensive search possibilities for the measurement database
- Recalculation of thermal analysis formulas
- Editable material formulas



Live tracing view of measurement results



Trending window to trend a result type for the selected station and material. The trend will show the ranges of the different materials measured in that station.

## Technical data

Item	Description	Detail
Measurement input	up to 32 instruments	using the ethernet interface
Storage capacity	up to 22 000 measurements	
Evaluation program for thermal analysis	white solidification grey solidification	Calculations of %C, CEL, Sc, %Si Calculations of CEL, Sc, T Liq, DT, DTM, SF1, SF2, Nodularity
Supported instruments	<ul style="list-style-type: none"> <li>• Alzin</li> <li>• CasTemp®</li> <li>• Carbon-Lab®E</li> <li>• Celox-Lab®E</li> <li>• Celox-Lab®E Foundry</li> <li>• Celox-Lab®E Cu</li> <li>• ConCelox-Cu</li> <li>• Conti-Lab E</li> <li>• Digilance</li> <li>• DigiTemp®E</li> <li>• QuiK-Lab® E</li> <li>• Sensor Lab Foundry</li> </ul>	Receive data through TCP interface
Database	Microsoft® SQL server 2019 Express	
Prerequisites: HD space Hardware  Software	120 GB CPU: Minimum 4 cores 2.5 GHz or 6 cores 2.0 GHz GPU: Integrated GPU with minimum 512MB RAM 16 GB RAM Windows® 10 64 bit Microsoft®.NET framework 4.6.1 or higher	

