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## MELTCONTROL FOUNDRY

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

# MeltControl Foundry

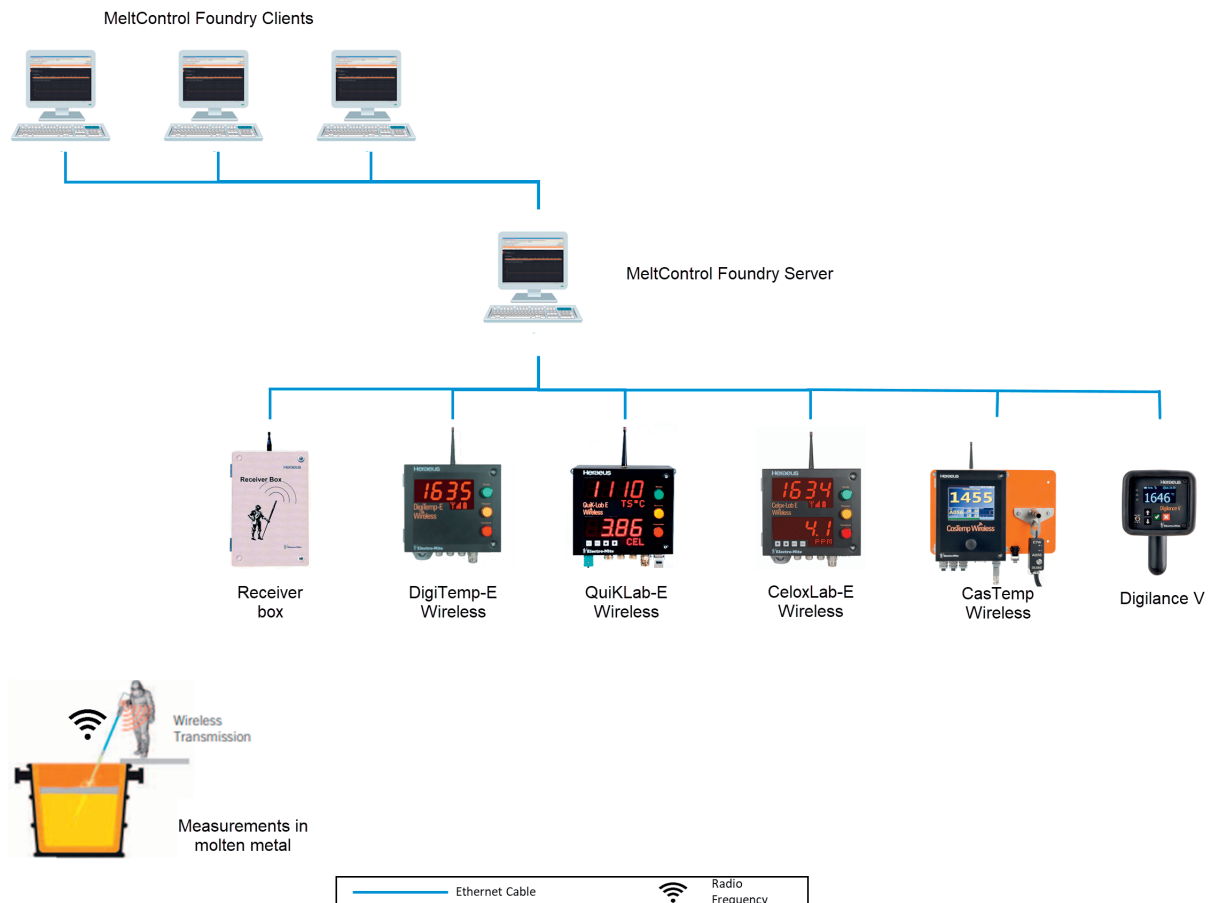
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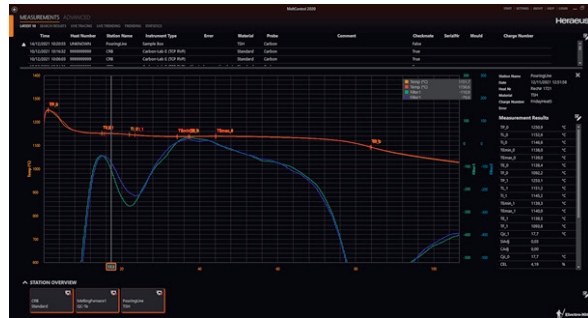
## Introduction

MeltControl Foundry is the digital analysis and data visualization tool for melt quality control that gives foundry engineers and managers access to all foundry 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 foundry melting and pouring departments
- The MeltControl Foundry system can be incorporated in your existing factory network (a client-server setup). See the picture below showing MeltControl Foundry installation possibilities.





## The MeltControl Foundry Software

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

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

- Recalculation of thermal analysis formulas
- Editable material formulas

- 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



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<br>grey solidification                                                                                                                                                                                                                                                                                                                | Calculations of %C, CEL, Sc, %Si<br>Calculations of CEL, Sc, T Liq, DT, DTM,<br>SF1, SF2, Nodularity |
| Supported instruments                                  | <ul style="list-style-type: none"> <li>Alzin</li> <li>Carbon-Lab<sup>®</sup>E</li> <li>Celox-Lab<sup>®</sup>E</li> <li>Celox-Lab<sup>®</sup>E Foundry</li> <li>Celox-Lab<sup>®</sup>E Cu</li> <li>ConCelox-Cu</li> <li>Contilab E</li> <li>Digilance</li> <li>DigiTemp<sup>®</sup>E</li> <li>QuiK-Lab<sup>®</sup> E</li> <li>Sensor Lab Foundry</li> </ul> | Receive data through TCP interface                                                                   |
| Database                                               | Microsoft <sup>®</sup> SQL server 2019 Express                                                                                                                                                                                                                                                                                                             |                                                                                                      |
| Prerequisites:<br>HD space<br>Hardware<br><br>Software | 40 GB<br>CPU i5 or higher<br>8 GB RAM<br>Windows <sup>®</sup> 10 64 bit<br>Microsoft <sup>®</sup> .NET framework 4.6.1 or higher                                                                                                                                                                                                                           |                                                                                                      |

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