

**beamex**



**BEAMEX CASE STORY**

REE AUTOMOTIVE  
**BRINGING A  
GROUNDBREAKING EV  
PLATFORM TO LIFE**

**Experience a better way**  
To a sustainable future. To run a business. To calibrate.

# HOW THE BEAMEX ECOSYSTEM IS HELPING TO BRING A GROUND-BREAKING EV PLATFORM TO LIFE

The Beamex ecosystem plays a crucial role in testing and validation processes at REE Automotive. With Beamex hardware and software at their disposal, the company's R&D staff are saving a huge amount of time and effort as they develop an innovative modular EV platform that is set to transform the e-mobility landscape.

REE Automotive is developing a groundbreaking flat, scalable and modular next-generation EV platform that provides customers with unprecedented design freedom for EV and autonomous vehicle applications. The company's core innovation is the REEcorner®, which integrates all traditional vehicle components into the wheel arch.

The prototypes for REE Automotive's software-defined vehicles are constructed and tested in the UK, in a facility based in the MIRA Tech Park in Nuneaton. The company also operates an engineering facility in the nearby city of Coventry. These prototypes are packed with a huge variety of sensors,

including pressure transducers, thermocouples and accelerometers.

Michael Denney, Test and Validation Engineer at REE, is the person responsible for making sure these critical devices are working properly and calibrated to the highest degree of accuracy. "All our testing and validation is done to the highest standards of quality and accuracy. We need to be sure the data from the vehicle sensors is trustworthy, and we need full traceability and comprehensive data records for purposes like accreditation and auditing," he explains.

## A LASTING FIRST IMPRESSION OF BEAMEX

Michael's first encounters with Beamex came in his previous role at a UK-based startup that was developing an innovative new air compressor technology. The team was using a Beamex MC2 documenting process calibrator to calibrate pressure



transducers and resistance temperature detectors (RTDs).

“Beamex left a lasting impression because the equipment just worked day in, day out and had everything we needed in one unit,” Michael explains. “We used the unit for pressure and temperature calibrations as well as data logging, and we could always rely on it whatever we were testing or validating.”

### A CALIBRATION DEPARTMENT IN THE PALM OF YOUR HAND

At REE, Michael and his manager were keen to make the calibration process as simple and cost effective as possible – without compromising on quality or accuracy. Given his previous positive experiences, Beamex was Michael's first port of call, so he and Beamex's Regional Sales Manager Aidan Farrelly sat down to map out what REE needed and what Beamex could do to meet those needs.

Michael also had some helpful leverage in the form of a blog, “How to persuade your boss to buy a new calibrator”, which gave him plenty of persuasive arguments to work with.

“We began by mapping out exactly what Michael and the team at REE wanted to achieve,” explains Aidan. “From there, we could then outline what the best-fit solution would look like and the value it could bring in relation to their requirements before blueprinting what the implementation would look like in practical terms.”

REE chose the Beamex MC6-T Multifunction Temperature Calibrator and Communicator along with Beamex LOGiCAL Calibration Management Software – a scalable cloud-based software-as-a-service solution. REE also received comprehensive classroom training on their new calibration ecosystem from a member of Beamex's Calibration Solutions Group (CSG).

“Effectively, with Beamex we were able to buy our own calibration department. The seamless integration of the hardware and software gives us everything we need in one package,” shares Michael. “Furthermore, the onboarding process made getting started extremely easy for us. The theoretical and practical training from Phil, the CSG expert, made sure everyone was up to speed from day one.”

### PLUG-AND-PLAY, PAPERLESS CALIBRATION

REE's Beamex calibration solution means that the company no longer needs to buy ready-calibrated transducers, which come at a premium. Michael estimates that the ability to perform

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**Michael Denney,**  
*Test and Validation Engineer at REE*



## REE Automotive

### CALIBRATION SOLUTIONS

- Beamex LOGiCAL Calibration Management Software
- 1 x Beamex MC6-T Multifunction Temperature Calibrator and Communicator
- 1 x Beamex ePG Electric Pressure Pump and Controller
- 1 x Beamex EXT External Pressure Module
- Practical classroom training from the Beamex Calibration Solutions Group
- Beamex Care Plan covering the MC6-T and EXT

### MAIN BENEFITS

- **Reliability:** The Beamex hardware and software performs reliably day in, day out.
- **Traceability:** All calibration data is stored in a single, central location, showing full records for all instruments.
- **Simplicity and efficiency:** Calibration is simpler and quicker without compromising quality or accuracy.
- **Error-free:** A fully digital calibration process removes the risk of manual data entry errors.

and manage their own calibrations has already saved REE upwards of £20,000 – and a huge amount of time and effort. With LOGiCAL, REE simply purchases enough credits to perform the calibration work orders required, with no need for expensive servers or software licenses.

“The plug-and-play nature of the Beamex ecosystem is a big plus for us,” Michael explains. “We do our calibrations, the data gets automatically synced to LOGiCAL and it’s there for everyone to see. If we need data for an audit or reporting, for example, it just takes a few clicks to call up the relevant information. It’s easy, and it gives us the full traceability we need without any extra effort on our part – no Excel sheets, no pen and paper.”

REE’s hardware is fully protected by a three-year Beamex Care Plan, covering regular recalibration and maintenance to keep their Beamex hardware reliable and accurate.

“If we need support, Beamex are there for us immediately, and if they can’t give us an answer right away they’ll work on the issue until they find one,” Michael says. “The support has been first class, and their focus is always on making sure we can get the maximum value from our investment.”

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Test and Validation Engineer at REE

### FOR MORE INFORMATION

Please visit  
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