



Remote Magnet Monitoring

- Comprehensive approach to minimize downtime

As leaders in superconducting magnets, Bruker is constantly innovating to improve performance and safety. With our latest innovation, Bruker has extended our successful remote monitoring system from our vertical NMR magnets to all our horizontal MRI magnets.

The new Bruker Magnet Monitoring Unit (BMU) brings together innovative features to further enhance the benefits of remote magnet monitoring, offering a straightforward and comprehensive approach to minimize downtime.

Why remote monitoring?

Unintended quenching of the superconducting magnet in an MRI system is a rare but potentially disastrous event. Although magnets are designed to withstand quenches, there is a possibility that components of the magnet will be damaged, resulting in downtime, expense and loss of precious liquid helium.

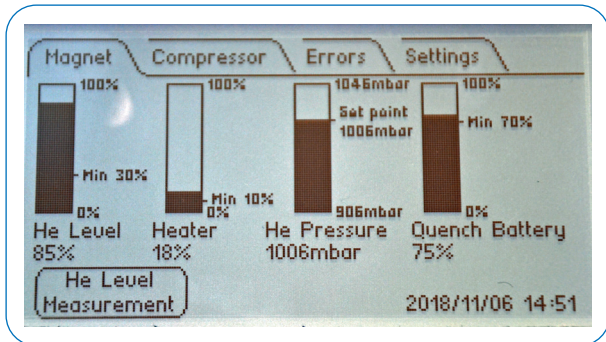
Bruker LabScape – our service and life cycle support platform – provides remote cloud-based monitoring to detect and warn against quenches before they happen. Our software sends data through a secure one-way connection to the cloud for centralized monitoring.

With remote online monitoring combined with backup alarm options, you can feel confident that Bruker is there, even when you're not.

The latest release of our Bruker Magnet Monitoring Unit – BMU 5 – introduces new features to further enhance your remote magnet monitoring.

Touchscreen display

The user-friendly touchscreen display allows for quick and easy checks of the status of the magnet and related infrastructure.



More alarm options

In addition to the existing alarms, the BMU 5 now comes equipped with an additional alarm that can be located up to 20 meters away from the system. Users can also choose to receive automated email alerts containing a brief description of errors keeping you connected, even when you are not at the instrument.

Compressor cooling control

The BMU 5 monitors the cryocooler parameters and alerts users to deviations in the water inlet temperature or flow. It also features an automated stop feature, which will disable the compressor when parameters fall outside the operative range. Details of the status of the compressor are displayed in an easily accessed tab on the new touchscreen display.

Field detection sensor

The BMU 5 is able to detect the presence of the magnetic field and sends a warning if there are any deviations due to a possible quench or if the field sensor has become defective.

Optional remote quench button

For greater flexibility and enhanced security, the BMU 5 is compatible with the addition of a second remote quench button, see Figure 1.

Email alerts are sent to users as well as local Bruker support to provide you with the highest priority support. We strive to limit instrument downtime so you can focus on achieving your goals.

The Bruker BMU 5 combines innovation with the lifetime support you expect from Bruker, a sign of our commitment to protecting your investment and productivity. Speak to your local Bruker representative about upgrading or installing a Bruker remote monitoring unit.

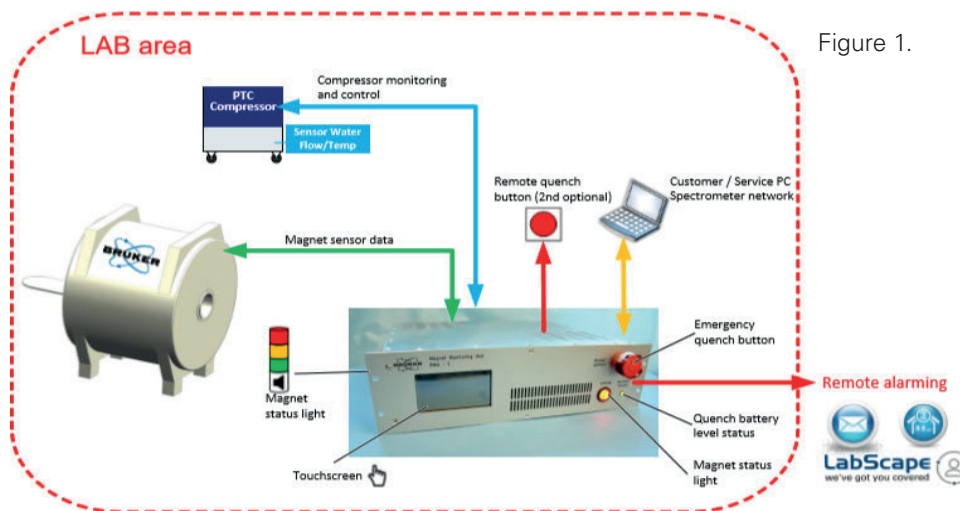


Figure 1.

● Bruker BioSpin

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