

# NEW ITEMS FOR SAMPLE ENVIRONMENT

## Needle Valve Pressure Controller



- Intuitive handling
- Two level control algorithm
- Resistive encoder possible
- Fail safe handling in case of power failure
- Software limits for motor movement
- Simple serial interface for changing
  - Setpoint
  - Control parameter
  - etc.
- Compatible with Oxford Instruments serial bus
- Source code available
- Easy to extend with new features

## Ball-Flowmeter



- Works as a one way valve
- Useful when refilling a cryostat with helium
- When starting to fill the cryostat warm gas from the transfer tube will evaporate helium lifting the ball
- When the transfer tube is cold the ball drops down allowing the cryostat to begin collecting helium
- That means you can start pressurizing the helium vessel without the risk of emptying the cryostat with warm gas

## High Precision Temperature Stick



- Weak link between experiment and cone heat exchanger
- Variety of inner vacuum cans available (standard dilution cans fits)
- Wide adjustable range for length, fits in all Cryostats and Magnets
- Temperature stability better than 0.5 mK deviation
- Modular setup with connector bank

## Magnet Racks with 'all-in-one' Connectors



- New Racks with:
- Computer
  - Monitor and touchpad in drawer
  - Emergency rampdown button
  - Magnet diagnosis plugs for cooldown plus Capillary heater and thermometer on front-panel



- Han-Modular connector system:
- Robust industry proven
  - Splash water tight and lockable
  - Assembly of modules can be chosen individually
  - 200 Ampère plugs for magnet current
  - Shielded Plugs for thermometry

## Levelmeter Charging Station



- 4 batteries at the same time
- Easy to use
- Identification of levelmeters via barcode
- Charging statistics stored in database
- Expandable
- Web-application for statistics and management



## Levelmeter for Helium Vessels



- New design for levelmeter and base station
- New rechargeable battery concept allows 4 weeks of operation

## Folding Rules



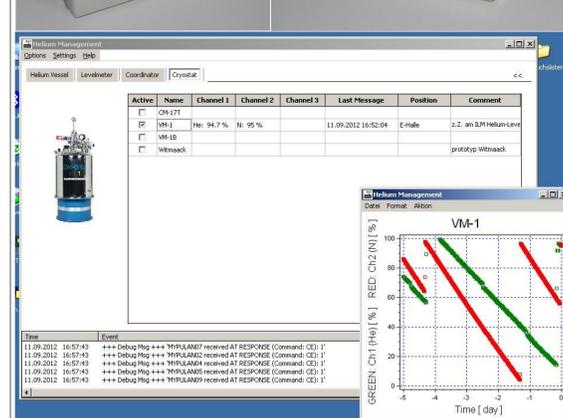
- Labeled with cryostat lengths
- Makes sample mounting quicker and easier

## Compact Trolley for Dry Cryostats



- Carries all needed parts like cryostat, sample-stick, adapter, compressor, flexlines, cables, etc.
- Easy to move and can be craned
- Unwinding an winding the flexlines without decoupling from compressor is allowed by rotary feedthrough

## Wireless Levelmeter Transmitters for Cryostats



- Compatible with helium vessel network
- No transmitter configuration needed
- Management and visualization via web interface and program
- Powered by ILM levelmeter or external power supply
- Works with 3 channel ILM or AMI-Levelmeter
- Can be configured to read out analog voltages of other devices