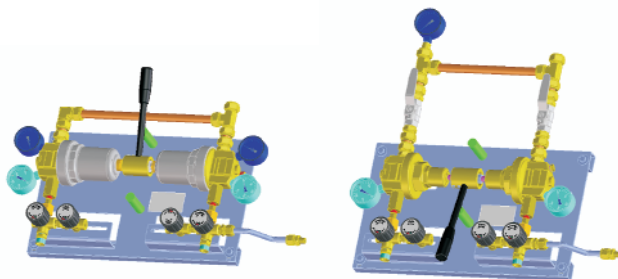


New Spectrotec pressure control panels with automatic change-over

The last developments for the relaunch of the automatic change-over panel BU13-2U and BU15-2U for technical gases have been completed. The former product range has been improved. On the technical side many new features were introduced. For example the change-over mechanism is new so that you can adjust each pressure regulator, while still being mounted, by using a movable connection element. This principle is used for all pressure regulators (U13 diaphragm pressure regulator and U15 piston type pressure regulator) and for all pressure ranges (15, 20, 40 and 60 bar). The change-over system is mounted on one plate including all process and waste gas valves. This makes it easier to assemble. For wall mounting c-rails are used.



As an option the panels can be equipped with ball valves downstream of the pressure regulators. This secures the gas supply even if a pressure regulator is not running (e.g. due to repair or maintenance). The regulator, which needs to be checked, can be shut off downstream, the fittings are loosened to take the pressure regulator out. The rest of the panel is still able to run. Furthermore you can get a common outlet pressure display for both pressure regulators on one pressure gauge as an option. So uncertainties due to imprecise pressure gauge displays are eliminated. The connection system for valves and extensions is changed from copper seal to bull nose. This guarantees optimal tightness together with easy disassembly. Furthermore the extensions can be supplied with compression fittings and stainless steel tubes. The length of the tubes can be specified. The new generation - more technical - user and service friendly.



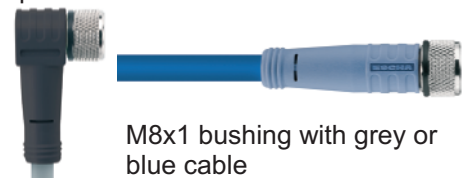
New: Reed contact pressure gauge

From August 2008 all contact pressure gauges in the product ranges Spectrotec, Spectrolab and Spectrochem will be equipped with a reed contact as a standard. With this is the connection to already existing alarm or signal units more simplified. Using inductive contact pressure gauges can cause problems, because the signal is not recognized by some units. The reed contact is a simple electrical equipment and can therefore also be used in Ex-zones. You can find the relevant certificate on our homepage www.spectron.de in the "Downloads" area.

The pressure gauges are equipped with a connector. You can use according to the circumstances and application a 5 meter cable in grey or blue (for ATEX) color. So you can use only one pressure gauge for different applications just by selecting the required cable (straight or 90°-angle).



We will of course still supply inductive contact pressure gauges if needed for replacement or to extend existing panels.



M8x1 bushing with grey or blue cable

Fully automatic control unit for gas cabinets and panels SPECTRON – FLOCONTROL

Based on our long time experience and substantial knowledge in gas supply we have developed the FLOCONTROL.

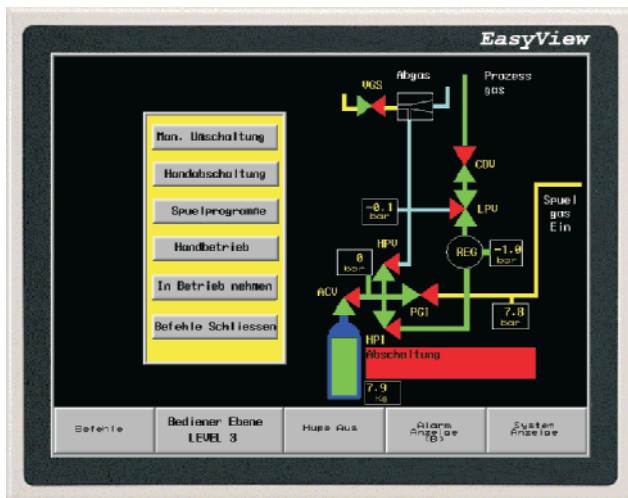
This is a PLC based fully automatic control unit.

FLOCONTROL is an economical and user friendly solution for processing ultra high purity, toxic, corrosive, self igniting, flammable gases.

FLOCONTROL combines real time control of the safety parameters with emergency shut down in case of a failure.

Permanent monitoring of relevant parameters for an early warning before shut down and interruption of the production.

Simple and user friendly monitoring and operation with an 8" high resolution touch screen.



Available product configuration:

- Dual for automatic purge and changeover of a two cylinder unit
- Single for automatic purge of a single cylinder unit
- Single plus for a single cylinder unit with purge gas
- Twin for two independent single cylinder units
- The above configurations are also available for bundles
- All controllers also available for ATEX application
- For gas cabinets or for panels



Most important product features:

- Setting of individual purge parameters for cylinder purge, service purge and line purge
- Alarms and abort of the purge programme if the required performance characteristics are not available or if the abatement system is not in service
- Automatic calculation of the evacuation and pressurisation time according to the line diameter and length
- Automatic changeover on cylinder weight or pressure
- At-a-glance status indication
- Menu-driven operation
- RS 485 profibus, modbus, or ethernet interface available
- Digital output for external alarm indication
- Audible and visual alarms and status indication
- Alarms and pre-alarms for low cylinder weight or pressure, high delivery pressure
- Internal shut-down upon high delivery pressure, burst disc monitoring, high outlet flow or EMO button
- External shut-off by EMO button
- For five digital inputs alarm or shut-off function can be selected
- Watchdog function of the programme with shut-down in case of failure

The requirement:

- Uninterrupted gas supply 24/7
- Gas type specific safety features
- Monitoring of the relevant parameters to avoid interruption of the production
- Clear and simple operation

The solution:

The SPECTROSYS alarm and control units now complete with the fully automatic control unit FLOCONTROL.

For the highest purity – gas purification systems

High purity gases are being used in many different applications in industry and laboratories. In some cases, even very low concentrations of impurities such as oxygen, moisture, hydrocarbons, sulphur compounds and others will disturb the sensitive analytical processes.

For this reason, Messer offers a range of gas purification systems, which specifically remove impurities up to extremely low levels. For instance 30 ppb and lower.

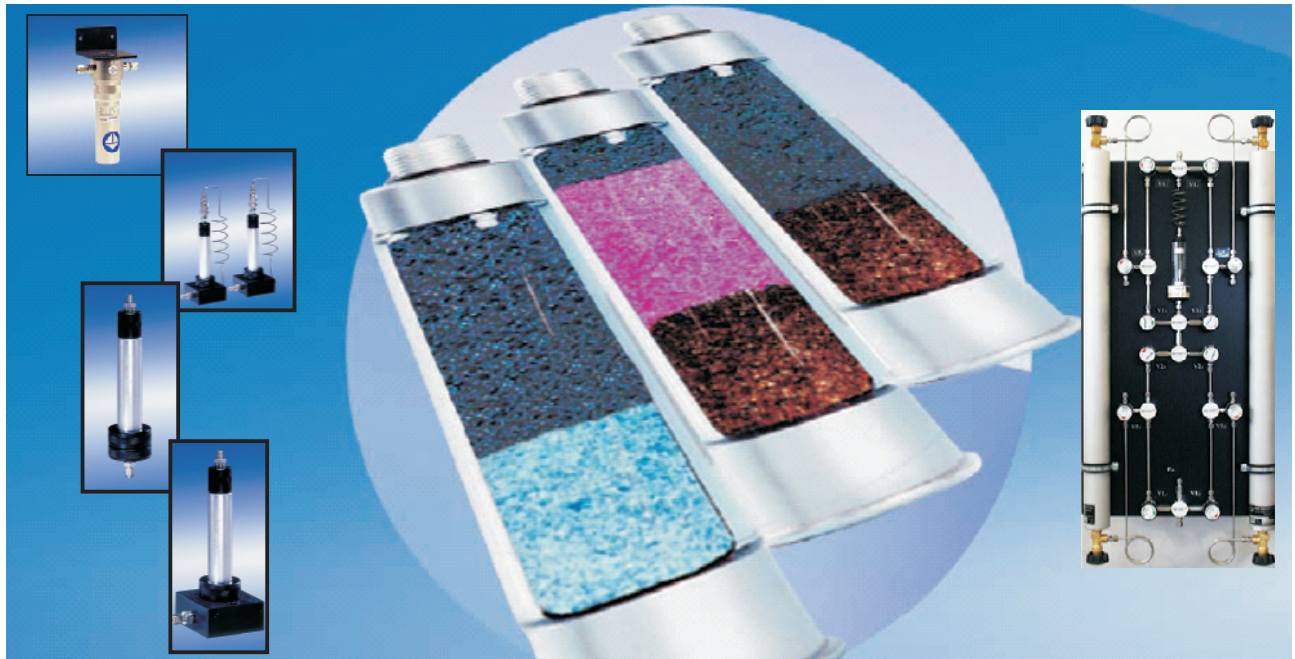
The purification systems are of a modular and user-friendly concept, which can be used universally, quickly and safely in laboratories and industry.



Various cartridge sizes are available, offering purification solutions for gas flows from ml/min up to even 100 m3/h!

The processes involved are based on chemisorptions or physisorption.

The size of the purification systems depends on the application parameters. Spectromol purification systems can be implemented as central gas purification or as point-of-use purification.



Applications overview:

Type	Contaminants removed	Gases to be purified
Oxisorb®	oxygen, moisture	Rare gases, N ₂ , H ₂ , CO, CO ₂ , saturated HC
Hydrosorb®	moisture (carbon dioxide)	Rare gases, N ₂ , H ₂ , CO, CO ₂ , HC, Halogen-HC, N ₂ O, O ₂ , compressed air
Accosorb®	Hydrocarbons, oil vapour	Rare gases, N ₂ , H ₂ , CO, CO ₂ , CH ₄ , compressed air
Sulfosorb®	Mercaptane, COS, SC, H ₂ S, SO ₂ , NO	Rare gases, N ₂ , H ₂ , CO, CO ₂ , saturated HC, compressed air
Excisorb® -F	Fluoride	Gas mixtures with F2 (scrubbing!)

*******TECHNICAL NEWSTICKER*******

***** **Pressure regulator 51 for 10 -> 1,5 bar** *****

In the product range of the 50mm pressure regulators the 52exact-version is already established. This type is used when you need an extremely low and / or constant outlet pressure. If the inlet pressure is low (up to 20 bar), then the lower priced pressure regulator of the range 51 is the best solution to get a very low outlet pressure (e.g. 1,5 bar).

*******FM62 now also for P2=10bar*******

The pressure regulator FM62 is now also available for an outlet pressure of 10 bar.

*******Control valve RV6E available again*******

Due to the tremendous demand we did not stop the production of the control valve with cylinder connection RV6E. It will continue to be available.

New employees in customer service

Peter Heckmann joined us in the beginning of 2008.

He works in our customer service department and is in charge of order handling.

Peter has more than 10 years experience in the leisure & sports business.

He sold mountain bikes and kids bikes.

Peter has a bachelor in commercial sales and worked also in the automotive industry for some years. In his spare time Peter rides his mountain bike and does regulary workout.



Siriporn Khemram is 24 years old and was born in



Thailand. At the age of 9 years she moved to Germany together with her parents. From 2001 to 2003 she was successfully educated as commercial

assistant for the secretary for foreign languages. Since July 2007 she works as an assistant in our R&D department and in addition since April 2008 she supports the customer service team.

Dates

Seminar supply systems:

German: 06. - 08. October 2008 in Frankfurt

English: 20. - 22. October 2008 in Frankfurt

For registration please contact Roger Zimmas:

Tel. +49 (0)69 38016-226 or roger.zimmas@messer-cw.de

analytica China: 23.-25. September 2008 in Shanghai



Medica: 19.-22. November 2008 in Düsseldorf



ACHEMA: 11.-15. May 2009 in Frankfurt



**Please plan your ACHEMA visit soon!
Many hotels are already fully booked!**

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