

Liquids to Value



T.VIS® A-8 Control Module

Reliable valve monitoring and control

Made by GEA Tuchenhausen



T.VIS® A-8 ... the automatic control module

T.VIS® A-8 is the optimization of the automatic T.VIS® A-7 control module. Our development work has focused on the requirements and wishes of our customers in the liquid processing industry. Apart from the safe and reliable monitoring and control of all functions of the process valves in breweries, dairies, fruit juice production plants as well as in the pharmaceutical industry, T.VIS® A-8 offers significant advantages which are instantly reflected in lower total cost of ownership (TCO).

An immediate proof of cost efficiency is the low investment costs, which we were able to achieve by tailoring the functions to customers' requirements. A complex, cost-intensive mounting set is not required either, which facilitates assembly on site.



... clearly indicates the valve position

For T.VIS® A-8, as for all T.VIS® feedback systems, clear **visualization** of the valve status is ensured by a large-sized optical round flashing indicator on the top of the T.VIS®. The multi-colour light emitting diodes show the current state of the valve from afar. The colour code can be individually selected by the customer.

... is adaptable

The well-known **flexibility** of the T.VIS® control modules is also a characteristic of the T.VIS® A-8. The number of solenoid valves and the type of communication can be selected in accordance with process requirements. Flexibility for us also means compatibility – the T.VIS® A-8 can easily be retrofitted to all process valves.



T.VIS® M-1

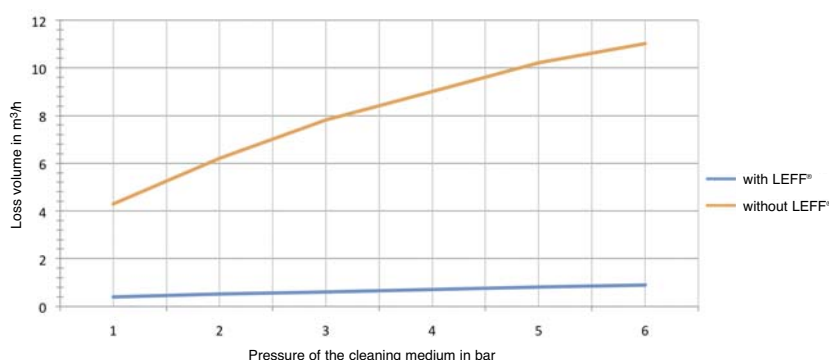
T.VIS® A-8

. . . reduces operating costs

Thanks to optimal **selection of components** (e.g. LEDs, solenoid valves) it was possible to reduce energy consumption of T.VIS® A-8 to as little as 70 % of comparable control modules on the market. Low energy consumption means that T.VIS® A-8 contributes to sustainably reducing your operating costs.

The LEFF® function describes a stroke depending, pulsed seat lifting during the cleaning phase of double seat mixproof valves. By simply activating this integrated function the operating costs during cleaning can be reduced to a minimum and the efficiency can be highly increased.

A comparison of cleaning medium consumption with and without LEFF® function (Low Emission Flip Flop) revealed that LEFF® helps to save more than 70% of cleaning liquid losses, and hence the associated sewage costs! It was also found that pulsed lifting increases the flow velocities and fluid turbulences in the isolation chamber so that clearly improved cleaning results can be obtained. Due to the shorter reaction time, the LEFF® function shows even significant advantages compared to PLC controlled pulsing systems.



. . . facilitates commissioning

Reliable **parameter setting** can be carried out on the closed, and hence protected, control module using two buttons on the cap. Commissioning is extremely user-friendly and can be carried out in next to no time (approx. 1 minute), as the entire setup process runs automatically. Although no tools are required to operate the T.VIS® A-8,

inadvertent actions are still prevented since operation requires a combination of de-energizing and a defined time window. For maintenance purposes, the solenoid valve for the main stroke of T.VIS® A-8 is also activated manually via buttons, while the process valve is very quickly returned to the safe operating status.



Simple valve setting at the push of a button

Advantages of T.VIS® A-8:

- Fast automatic initialization and reliable commissioning
- Optimized energy consumption
- Customer-specific LED indication
- Ease of maintenance due to manual control of the process valve (not necessary to open the cap)
- Solenoid valves protected by replaceable filters and air hose connections in the control air supply line
- Adjustment of switching times of process valves by optional supply and exhaust choke
- Significant reduction of operating costs, e.g. due to LEFF® function

T.VIS® A-8 . . . the technical features

Technical data:

Interface type:	24 V DC; AS-Interface and DeviceNet
Number of solenoid valves:	0 to 3 solenoid valves
Logic element NOT:	optional pneumatic actuator support
Feedback systems:	Path measurement (actuated and non-actuated position) and with an optional third sensor in the lantern for monitoring the double-disk
Control air connection:	max. 8 bar (with replaceable filter and screw-type air hose connection)
Electrical connection:	M12 / 5-pole connector M12 / 8-pole connector
Protection class:	IP65 / IP67
Material:	PA / NorylGFN2 / TPE



LED display:



Colour code	Standard	Optional*
Green	Non-actuated position	Actuated position
Yellow	Actuated position	Non-actuated position
Red	Programming mode	Programming mode

*) Selectable during commissioning



GEA Mechanical Equipment

GEA Tuchenhausen GmbH

Am Industriepark 2-10, 21514 Büchen, Germany

Phone +49-4155 49-0, Fax +49-4155 49-2423

sales.geatuchenhausen@geagroup.com, www.tuchenhausen.com

668e-11/2010