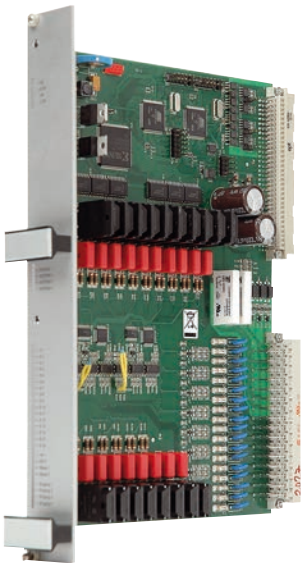


# PENTAttraffic® controller 9000: open and modular

## PENTAttraffic controller 9000

The **PENTAttraffic controller 9000** is fitted with the latest state of the art to the highest levels of future traffic requirements without neglecting the basics. It is best equipped to cope with all demands via full backwards compatibility with previous AVT VSZ/M and STOYE VSA 7800 traffic light controllers, so existing programs can also be used in the **PENTAttraffic controller 9000** and do not have to be reprogrammed – and that saves costs!

This future-oriented flexibility offers operators the intended maximum in planning and investment security.



## Customer benefits

### 1. Device properties

- geared towards satisfying all device specific requirement classes according to EN 50556  
=> Europe-wide use
- proven 19-inch technique – modular expandable  
=> fast, flexible, tailor made adaption possible
- free assignment of signal group colours to signal outputs  
=> flexible control, monitoring as well as economic expansion
- individual monitoring of all outputs for current, voltage and load with configurable tolerance ranges  
=> highest functional reliability
- planning compatibility to AVT VSZ/M and STOYE VSA 7800 traffic light controllers  
=> direct further use of existing programs
- multiple traffic control center interfaces available



## 2. OCIT integrated

- implemented OCIT-0 V2.0 interface with data transmission profiles 1 to 3
- OCIT conform local system access
- complete integration of the data structure of OCIT-0 V2.0
- online changes in planning – by traffic engineer's workstations as well as traffic control centers
- partial or complete changes and logical changes possible
- fully automatic supply with OCIT-C (formerly OCIT-I-VD) planning data

### A Base module

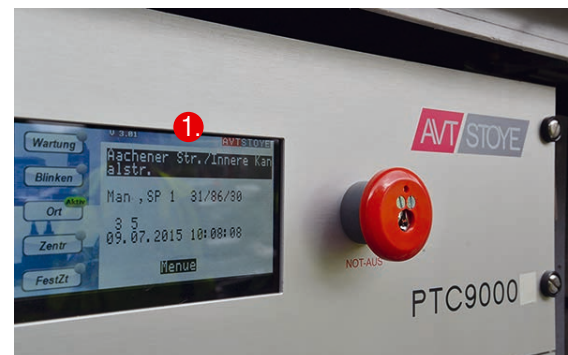
Economic expansion for small and medium intersections or efficient exchange of existing controllers with:

- up to 96 monitored signal outputs (corresponds to 48 signal groups, depending on logical assignment)
- up to 24 unmonitored signal outputs

### B Expansion module

Expansion for complex large intersections with:

- up to 288 monitored signal outputs
- up to 72 unmonitored signal outputs



## Device parameters

<b>Norms</b>	RiLSA, EN 12675, VDE 0832 (EN 50556)
<b>Mains supply</b>	230V AC (-20%, +15%), 50Hz (+/- 4%)
<b>Partial intersections</b>	maximum 4
<b>Signal groups</b>	maximum 64 monitored signal groups maximum 64 unmonitored signal outputs/groups
<b>Signals/lamps</b>	40 V LED as per CTC/TS 50509 type A and OCIT LED specification 230V AC bulb technology, 230V AC LED 10V AC bulb technology acoustic and tactile signals
<b>Switch outputs</b>	maximum 288 switch outputs allocated to 18 signal groups with 16 outputs each all outputs voltage- and current-monitored and also load controlled max. switching current per output: 2A max. 2 lamps per output; these can be monitored for faults in single or parallel free assignment of outputs to signal groups also 4 unmonitored universal switch outputs per lamp switch card
<b>Signal monitoring</b>	dual-channel redundant
<b>Detection</b>	use of commercial sensor technology up to 256 inputs induction loop detectors (also classifying), optical, tactile and radar sensors magnetic field sensors video detection
<b>Interfaces</b>	analog and digital public transport modules 2x Ethernet 1x CAN 1x USB serial (4x RS422/485, 2x RS232-C, 2xTTL)
<b>Dimensions</b>	height as per expansion stage: 6 HE (267 mm) for maximum 96 switch outputs (base module) 12 HE (534mm) for maximum 288 switch outputs (full expansion) width: 19" (482mm), depth: 250mm
<b>Timer</b>	RTC, DCF, GPS, NTP
<b>Operating panel</b>	integrated buttons for operating mode and device control TFT-touch display integrated and remote installation possible up to 4 panels simultaneously useable special control panels for authorities and maintenance personnel possible

## Control parameters

<b>Traffic controls</b>	linux based, freely programmable, modular expandable
<b>Standardized programming modules</b>	OML+, PDM-TL/SL, RiLSA, Trends/Trelan, VS-PLUS
<b>Interfaces</b>	OCIT-O V2.0, BEFA15, DVI35, LS25

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