



TERM – EMISSIONS PROGNoses FOR TRAFFIC MANAGEMENT

SWARCO TRAFFIC SYSTEMS GMBH is a member of the internationally active SWARCO group, the one-stop-shop for road markings, signage, signalisation, and traffic management – your reliable partner for traffic solutions.

TERM offers analysis functions for the assessment of emission condition in certain traffic locations. These analysis functions will predict the quality of traffic control measures in regard to its emission reducing effect up to 36 hours in advance. On a strategic level, the prognosis function is utilized most sufficiently when preventive traffic is distributed in an environmentally oriented manner. Forecasted reduction of traffic volume in critical areas of emission pollution delays the accumulation of air pollutants during inclement weather.



TERM – EMISSIONS PROGNoses

DATA BASIS:

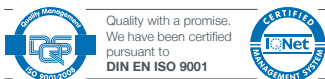
TERM requires the meteorological and traffic parameters as well as the determined air pollutant concentration in the forecast area to conduct an emission prognosis. This is accomplished by setting up a compact emission measuring station featuring O3, NO, NO2, PM10 sensors as well as weather sensors in each forecast area. Based on these facts we produce targeted and accurate prognoses of specific weather parameters in the forecast area in collaboration with our partner Meteomedia AG. The necessary traffic prognoses may be obtained from existing intersection control devices and/or VMZ, or from historical hydrographs.

TRAININGS PHASE AND SIMULATION:

Following a training phase with all data, the system is able to provide emission prognoses for NO2 and PM10, offer strategic navigation recommendations and conduct simulations that may be configured individually.

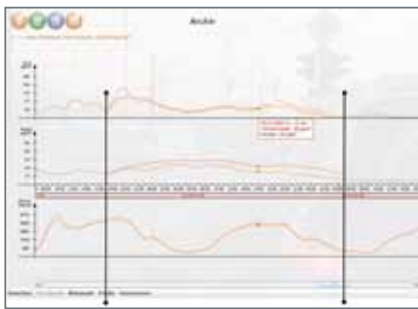
The ramifications of traffic measures regarding the emission conditions during certain weather situations can be calculated by selecting random traffic density hydrographs at all of the hotspots.

After a traffic measure has been activated, an impact analyses to establish the effect on air quality may be conducted with TERM.

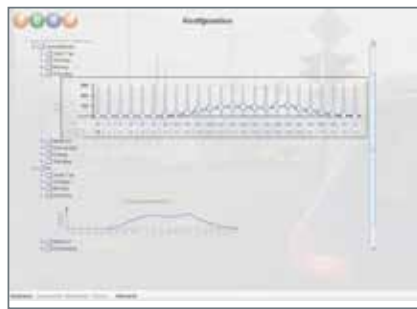


Quality with a promise.
We have been certified
pursuant to
DIN EN ISO 9001

TERM – EMISSIONS PROGNoses FOR TRAFFIC MANAGEMENT:



TERM - Application Archive



TERM - Application Configuration



TERM - Application Simulation

LOCAL AND STRATEGIC CONTROL PROCEDURES:

In combination with the control procedures by SIGNALBAU HUBER, the effect of the emission prognoses system is optimal. With the use of the OCIT-interface it may be utilized independent of the manufacturer on tactical and strategic levels. Strategic recommendations regarding traffic distribution are transmitted directly to the strategy-computer. During the activation phase of the measures, TERM collects information with regard to the relevant emission impact of the control option.

HARDWARE:

- PC for TERM-server-software (TERM-client browser-application)
- High-precision compact emissions measuring station with NO-, NO2- and PM10-sensors (optional O3)
- Durable base-weather station with heated pluviometer
- Communication-components in emission-measuring-stations, weather stations and control devices

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SWARCO TRAFFIC SYSTEMS GMBH

SWARCO TRAFFIC SYSTEMS GMBH – formerly SIGNALBAU HUBER – is one of the leading suppliers of intelligent traffic systems in Germany. Building on many decades of experience, it offers a wide range of innovative solutions for urban and interurban traffic management, including parking and traffic detection. Its nationwide service and maintenance network guarantees highest possible system availability and improved road safety. With economical, sustainable, and environmentally friendly technologies we help ensure smooth and safe traffic flows.

SWARCO TRAFFIC SYSTEMS GMBH

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