



Monitoring traffic flows.

During traffic jams, phase changes from PC.

The NEW IMC-H multifunctional control unit
opens up many possibilities.



FMC-N

Monitoring traffic flows.



During traffic jams, phase changes from PC.

The NEW FMC-N multifunctional control unit opens up many possibilities.

Multifunctional control unit for traffic signal systems up to 32 signal groups, 256 signal lamps for the implementation of simple or complex traffic-related tasks, according to DIN VDE 0832, TL - LSA 97, Rilsa, EN 12675, EN 12368 and NEN 3384.

Easy installation with 2-wire technology. Available as open ring/string wiring or prescribed star wiring, according to type class 'D' of the TL – LSA 97, without costly distribution apparatus or mast distributors.

Intelligent fully monitored LED signal heads to ensure safety measures according to DIN VDE 0832, with connection possibility for 3 respective independent detectors, switches, induction loops or cameras. Network operation, network-independent
battery/solar-operated or hybrid power possible.

FEATURES

- Graphic programming software for full traffic-actuated programming. Data transfer without RS232 via network interface (RJ 45) or via USB cable/stick, available on any existing commercial computer.
- Creation of traffic-related drawings/documentation in a single operation using the supplied programming software.
- Touch screen display with 640 x 480 pixel resolution and 24-bit colour depth to operate the signal system, as well as presentation and simulation of the real site maps with signals, permanently installed in the control unit. Recording, documentation and printing of the procedures and signalling conditions in real time. Changing of non-safety-related system parameters during ongoing operations.
- unlimited phase options preprogramms into the controller unit from build

- Capability of coordination with adjacent signal systems or central computers via cable or DCF synchronous time signal.
- Remote monitoring of failure or error condition analysis via GSM/SMS or wireless GPRS Internet connection.
- Optional: GPS data analysis.
- Optional: Public transport and emergency vehicle priority.
- Safe, self lockable, anti-vandal
- Professional, double-walled outdoor cabinet made of IP55 aluminium with temperature compensation, with lighting and closed cable entries.
- Optional: push connectors or series terminals.
- Control unit in operator-friendly cassette design. Component replacement by the operator if required.



Remote monitoring/diagnostics/programming of the signal system type: FMC-N through our new UMTS/HSPA-Modem including the option of connecting our panoramic camera for traffic monitoring.

Our remote maintenance system makes the following functions possible:

- Fault alarm via email or SMS.
- Remote monitoring of the signal system with all processes, program parameters and detector functions as well as live recording of current conditions.
- Remote diagnostics in case of failure, readout of error memory and operating log.
- In addition, the traffic lights can be manipulated by remote control. Adjustment of all non-safety-related parameters, such as green times, start gap times, switching times and daily and weekly schedules can be made on the fly.

Functionality of the UMTS/HSPA-Modem:

- Implementation of UMTS / HSDPA / HSUPA / GPRS / EDGE <-> Ethernet 10/100
- IP on both interfaces (UMTS, Ethernet)
- Router
- GPS
- Web interface for setting of UMTS access parameters and router parameters
- Updateable
- VPN functionality
- Simple firewall functions



Functionality of panoramic camera:

- Panoramic function, swivel range of 354°, tilt angle of 125°
- Max. resolution 640 x 480 pixels, special version 1280 x 1024 pixels available
- 1/4" Progressive scan CMOS technology
- Focal distance of the integrated wide-angle lens is 4mm
- 10 x digital zoom
- Simultaneous transmission of MPEG4 and MJPEG video data (Dual Stream)
- RTSP protocol for mobile access (3GPP)
- Sending photos via email or FTP
- Weatherproof housing IP66 with galvanised mast clamp
- Clear view at all outside temperature and weather conditions