SWITCHMASTER

Smart control of tram point machines

- Compact module with user-friendly and easy maintenance interface

- Hydraulic and electromagnetic point machine control

- Four aspects signalling according to individual customer requirement

- Contact, contactless and data control interface

- Fully automatic route setting according to the number of line, destination or tram number

- Securing of the point area by three independent safety elements

- Measuring the approaching and passing speed at the switch point

- Easy and low cost maintenance which can be performed by customer

- Detailed log of events in three independent places and comfortable remote access

PrvníSignální

Intended for controlling tram point machines from various manufacturers.

Vast possibilities of changing operation parameters on site.

User interface with graphical display enables diagnostics without any special equipment.

Automatic blocking of the next point in the tram direction.

Manual, semiautomatic and fully automatic switch throwing.

Measuring and checking of the switching time with timely warning of slow operation.

GENERAL **DESCRIPTION**

Integrated control and electrical point heating check based on digital measurement of outdoor temperature, with possibility of remote manual control. Power supply dispatcher can block heating in case of a danger of exceeding fifteen minute consumption limit.

TECHNICAL DESCRIPTION OF CONTROLLER

- One tram point machines control including eletrical heating
- Throwing direction control by hydraulic valves and changing the motor rotation.
- Intended for both hydraulic and electromagnetic point machines.
- Compact module with display and keyboard made to be fixed to DIN rail.
- 15 binary inputs out of which 9 with two channel evaluation.
- 11 binary relay outputs out of which three have two channel control.
- 4 RS485 data lines with galvanic isolation
- Memory card slot for longterm storing of events
- Industrial graphical touch screen
- LED indication of basic operation states
- WAGO connectors for easy module replacing
- Digital temperature sensor or analogue thermostat input
- Industrial operating temperature range – no need of temperated cabinet

BASIC TECHNICAL PARAMETERS

Power supply	**9-33 V DC**
Consumption	**6W (24V)**
Protection	**IP20**
Module Dimensions	**213 x 50 x 110mm**
Temperature range	**-20 .. +70°C**
Electrical insulation	**4kV AC**
Mounting	**DIN rail 35mm**

CONTROL **CABINET**

POWER SUPPLY

REMOTE CONTROL

SWITCH **MASTER**

APPROACH SECTION

DEPARTING SECTION

TRAM SIGNAL

Throwing (Tram Identification)		Point Machine	
Throwing (Tram Detection)		Point Heating	
Point Locking		Point Unlocking	

První**Signální**