

With a growing recognition that streetscape presentation is an important part of many urban redevelopment schemes, Siemens' innovative 'bench controller' offers traffic engineers and town planners the opportunity to provide sophisticated traffic or pedestrian solutions whilst merging the control equipment into their overall aesthetic plan.

#### Attractive aesthetic design

The bench controller concept moves the housing of traffic control equipment away from the traditional cabinet and places all the necessary elements needed for effective Pedestrian or Intersection control into an attractive public seat that blends effectively into the surrounding streetscape.

#### Full controller functionality

Based on the successful ST900, the 'bench' provides all the facilities normally associated with the controller and can accommodate additional ancillary equipment such as detectors, OTUs, OMUs and MOVA units.

#### Robust enclosure

Its sturdy, modern looking stainless steel surround is practical and extremely resistant to vandal or other damage that might occur. The seat, constructed of sustainable hardwood, is specially designed to be comfortable, but inset arm rests prevent it from becoming an easy place to sleep overnight.

The bench enclosure also includes a rigid mounting stool so that the enclosure may be installed in advance of the controller electronics, if required by the street works schedule.

#### Easy maintenance

To facilitate equipment maintenance an electrically powered lift mechanism is incorporated, which raises all of the control equipment out of the bench enclosure. With safety a key concern, both electrical and mechanical interlocks are provided and the rate of lowering is controlled to minimise any possible trap hazards.

All normal user facilities are retained and access to the manual panel is possible through a separate access door, without the need to raise the bench.



- Full controller functionality
- Attractive bench styling
- Very robust stainless steel construction
- Hardwood bench seat
- Controller raised by hydraulic jack for easy maintenance
- Accommodates all normal ancillary equipment

## Bench controller

### A brand new type of traffic controller

Traffic Solutions

**SIEMENS**

## Technical specification

### Inbuilt modes of operation

- Manual
- Fixed-Time
- Vehicle Actuated
- Urban Traffic Control
- Pedestrian Fixed Vehicle Period
- Pedestrian Vehicle Actuated
- Bus/Light Rail Transit
- Part-Time
- Cableless Linking
- Hurry Call
- Emergency Priority

### Phases and stages

- Number of hardware phases: 1-32 (Phase sequences programmable)
- Number of independent streams: 8
- Number of stages: 32

### High-speed vehicle detection

Integral speed discrimination, double/triple speed assessment

- Number of assessors: 16

### Cableless linking facilities

- Number of plans: 16
- Number of groups per plan: 32
- Number of time switch settings: 64
- Number of group influences: 10
- Timing sources 50/60Hz mains, Internal crystal or optional GPS clock

### Inputs and outputs

- Number of digital inputs:  
0-240 compliant to TR2523
- Number of isolated digital outputs:  
0-96 compliant to TR2523 (Actual number of inputs and outputs possible depends on configuration, up to a maximum of 248 in total, which may require an additional cabinet)

### Lamp switching

- Lamp switching type: Solid state
- Number of lamp switch cards supported: 4
- Number of phase outputs per lamp switch card: 24 (arranged as 8, 3 aspect phases)
- Maximum lamp load per output switch: 4A
- Maximum total controller lamp load: 20A
- Lamp supply voltage: As per input supply
- Signal dimming: 120V, 140V, 160V AC RMS
- Maximum Dimmed lamp load: 2KVA



### Electrical

- Input power supply ( $\pm 15\%$ ): 100V, 110V, 220v, 230v, 240v
- Supply frequency: 50/60Hz  $\pm 4\%$

### Environmental

- Designed to meet: UK TR2500, EN12675, EN50278
- Supply interruption: Continuous operation up to 50ms break
- Supply failure: Automatic restart without operator intervention
- Operating temperature range:  $-25^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$

### Dimensions

Standard bench (Above ground)

- Height: 885mm
- Seat Height: 500mm
- Width: 1803mm
- Depth: 643 mm
- Approximate weight: 450 Kg

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