

## CTIS | Central Tire Inflation System for vehicles with drilled axles, having integrated rotary unions

The ti.systems CTIS allows the user to select between four preset pressures, such as Highway, Off-Road, Sand/Mud/Snow and Emergency, which are individually defined, depending on the vehicle. If required, these 4 settings can easily be changed at the main control unit by authorized personnel.

The system works purely pneumatic thus avoiding any EMC hassle! All air lines and the rotary union inside the axles are unpressurized after switching off the operating unit.

These key features are the result of a revolutionary new CTIS wheel valve, developed and patented by ti.systems. Thus, it can be retrofitted onto vehicles with axles, equipped with rotary unions.

Furthermore, the innovative valve fits perfectly to Hutchinson rims, but can also be upgraded onto other kind of rims by adaption.

### The ti.systems CTIS offers distinct advantages:

- Doubling traction by adjusting tire pressure
- Comfortable and precise tire pressure adjustment on the go
- Easy, fast and fail-safe
- No undesirable tire deflation over night
- No electric or electronic components
- Air supply by vehicle's air brake system or a powerful ti.systems AIR SUPPLY
- Easy to fit within 2 to 4 hours
- Extended lifetime of the rotary unions



TISW

(ti.systems Wheel Valve)

TIS-X-665-008

Patent DE 10 2018 112 243.8

- Dimensions: 5.8 cm | 6.5 cm | 4 cm (l | h | w)
- Weight: 191 g
- Static temperature range: -30°C to +120°C
- Dynamic temperature range: -10°C to +80°C
- Fording ability
- Rate of air flow up to ~400l/min



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# CTIS

## CTIS preset 4|1 operating unit

The CTIS preset 4|1 allows comfortable tire pressure adjustment on the move. Four tire pressures are preset as agreed with the customer and can then be conveniently selected as required by setting the rotary switch. Thanks to the pneumatic ON | OFF switch, the lines and rotary unions are only under pressure when the tire pressure is adjusted.



CTIS operating unit in the driver's cabin

- Purely pneumatic operating unit (TIS-X-748-009)
- One control system for same pressures in the front | rear
- One rotary switch for 4 adjustable pressure presets
- Silicone-oil damped gauge 0 – 10 bar
- Colour-coded control pipes for easy connection
- Dual dial bar | psi
- Thermal application -40°C to +70°C
- Dimensions: 16 cm | 9 cm | 8.5 cm (w | h | l)
- Weight: 1.5 kg



CTIS main control unit

- Purely pneumatic main control unit (TIS-X-647-015)
- Adjusts the pressure of all tires to selected setting
- Stops automatically when the target pressure is reached
- Full transmission of compressed air
- Fording ability
- Thermal application -40°C to +70°C
- Dimensions: 15cm | 12 cm | 20cm (w | h | l)
- Weight: 4.4 kg

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Certified to DIN EN ISO 9001:2015

DIN EN ISO 14001:2015

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# CTIS

## CTIS preset 4|2 operating unit

The CTIS preset 4|2 allows comfortable tire pressure adjustment on the move. Four tire pressures for the front- and four tire pressures for the rear-axle(s) are preset as agreed with the customer and can then be conveniently selected as required by setting the rotary switch. Thanks to the pneumatic ON | OFF switch, the lines and rotary unions are only under pressure when the tire pressure is adjusted.



- Purely pneumatic operating unit (TIS-X-748-005)
- One control system for different pressures in the front | rear
- One rotary switch for 4 adjustable pressure presets
- Silicone-oil damped gauge 0 – 10 bar
- Colour-coded control pipes for easy connection
- 2 main control units are required (see page 2)
- Dual dial bar | psi
- Thermal application -40°C to +70°C
- Dimensions: 25 cm | 10 cm | 8.5 cm (w | h | l)
- Weight: 2.7 kg



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