








# Connection Guide

Trackunit 401 SmartID 

Trackunit  
technical  
documentation



## Guidelines for correct wiring

Wire color		Connection	Description
Blue		Ground	Ground
White		Digital input 1	Operating hours counter input <sup>1</sup> • Electric lifts: Joystick (activity at joystick-button) <sup>2</sup> • Diesel lifts: Machine running (Relay 87) • Other machinery: hour counter
Brown		Digital input 2	Ignition signal input Connect to emergency switch (or Relay 30) <sup>1</sup>
Grey		Digital input 3	General input
Pink		Digital input 4	Activity resets the Key expiration timer, when using Boom sensor <sup>1</sup> • Electric lifts: Joystick (activity at joystick-button) • Diesel lifts: Machine running (Relay 87) • Other machinery: not required <sup>3</sup>
Yellow		Digital output 1	Output activates ground for relay (85)
Red		Power	Connect to permanent 12/24V supply through a 1A fuse

<sup>1</sup> Min. 8V DC voltage at input

<sup>2</sup> If signal is missing please call Trackunit Support for alternative setup

<sup>3</sup> Input filtering is found in the Short Guide for ME401

## Verification of installation status with SMS Commands:

Verification	Send SMS	Return SMS from unit
<b>GPS and GSM signal</b>	MT SIGNAL	MTC ACK (SERIAL No.) SIGNAL: GSM=22, SAT=8, SN=44 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 2px 10px; border-radius: 5px;">Poor</div> <div style="background-color: orange; color: white; padding: 2px 10px; border-radius: 5px;">Good</div> <div style="background-color: green; color: white; padding: 2px 10px; border-radius: 5px;">Excellent</div> </div> <p><b>GSM: Signal strength:</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 2px 10px; border-radius: 5px;">0-10</div> <div style="font-size: 20px; color: red;">➔</div> <div style="background-color: orange; color: white; padding: 2px 10px; border-radius: 5px;">11-20</div> <div style="font-size: 20px; color: orange;">➔</div> <div style="background-color: green; color: white; padding: 2px 10px; border-radius: 5px;">21-31</div> </div> <p><b>SAT: Number of satellites:</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 2px 10px; border-radius: 5px;">0-3</div> <div style="font-size: 20px; color: red;">➔</div> <div style="background-color: orange; color: white; padding: 2px 10px; border-radius: 5px;">4-5</div> <div style="font-size: 20px; color: orange;">➔</div> <div style="background-color: green; color: white; padding: 2px 10px; border-radius: 5px;">6-</div> </div> <p><b>SN: GPS signal quality:</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 2px 10px; border-radius: 5px;">0-27</div> <div style="font-size: 20px; color: red;">➔</div> <div style="background-color: orange; color: white; padding: 2px 10px; border-radius: 5px;">28-34</div> <div style="font-size: 20px; color: orange;">➔</div> <div style="background-color: green; color: white; padding: 2px 10px; border-radius: 5px;">35-</div> </div>
<b>Inputs</b> <i>NOTE: This command can be sent to the unit under various operational conditions like: Machine running, ignition only or off.</i>	MT STAT	MTC ACK (SERIAL No.) INPUT STATUS: INPUT1 LOW, INPUT2 HIGH, INPUT3 LOW, INPUT4 LOW, CHARGE VOLTAGE ON, SERIAL No. <b>NOTE: Input LOW &lt; 8V &lt; input HIGH</b>

## Technical Assistance

Trackunit support: +45 96 73 74 00 or E-mail: [support@trackunit.com](mailto:support@trackunit.com) Please have unit serial number ready when contacting support. All documents can also be downloaded online: [www.trackunit.com/downloads](http://www.trackunit.com/downloads)