

Roth Touchline® SL ModBus RTU



Living full of energy

ModBus för Roth Touchline® SL system

Den nya generationen 2. av Roth Touchline® SL er födt med Modbus RTU-integration som gör det möjligt att integrera vårt styr-system i ett Modbus-system som slav. Den fysiska BMS/Modbus-anslutningen finns i vår nya generation Roth Touchline® SL Master kontrollenhet märkt med "BMS/Modbus" och nedan hittar du ett register för nedladdning med alla parametrar som är möjliga att läsa och skriva i vårt nya Touchline® SL-system.

Du måste se till att både din Master- och utbyggnadsenhet har rätt firmware installerad för att systemet ska fungera med Modbus. Du hittar firmwareversionen genom att trycka på "Meny" och sedan använda nedåtpilen för att välja "Programversion" längst ner. Programvaran ska heta 1.0.11 för Master kontrollenhet och 1.0.12G för utbyggnadsenheten, eller senare. Du kan alltid hitta den senaste firmwären på vår hemsida under rubriken "Support".

Om firmwareversionen är en äldre version måste du ladda ner och installera den senaste firmware på alla kontroller i ditt system, dvs både master- och utbyggnadsenhet.

Register över kommandon för Modbus

Nedan visas registret över kommandon för läs- och skrivparametrar:

| Reg. | Name | Note | Read / Write | Type |
|---------|--|---|--------------|--------|
| 1 | FW Date | (Month * 40 + Day) * 100 + Year | R | uint16 |
| 2 | FW Time | Hour * 100 + Minute | R | uint16 |
| 3 | FW Version Major | Major release | R | uint16 |
| 4 | FW Version Minor | Minor release | R | uint16 |
| 5 | FW Version Revision | Revision release | R | uint16 |
| 6 | PCB Version | | R | uint16 |
| 7 | Tech serial number High | | R | uint16 |
| 8 | Tech serial number Low | | R | uint16 |
| 9 | Bootloader FW Version Major | | R | uint16 |
| 10 | Bootloader FW Version Minor | | R | uint16 |
| 11 | Bootloader FW Version Revision | | R | uint16 |
| 12 | Day | | R / W | uint16 |
| 13 | Month | | R / W | uint16 |
| 14 | Year | | R / W | uint16 |
| 15 | Hour | | R / W | uint16 |
| 16 | Minute | | R / W | uint16 |
| 17 | Second | | R / W | uint16 |
| 18 | Setting QuickActions | Normal = 0, Holiday = 1, Eco = 2, Comfort = 3 | R / W | uint16 |
| 19 | Setting HeatCoolMode - Master L-12 | Heating = 0, Cooling = 1, Auto = 2 | R / W | uint16 |
| 20 | Setting HeatCoolMode - Extension 8CH 1 | Heating = 0, Cooling = 1, Auto = 2 | R / W | uint16 |
| 21 | Setting HeatCoolMode - Extension 8CH 2 | Heating = 0, Cooling = 1, Auto = 2 | R / W | uint16 |
| 22 | Setting HeatCoolMode - Extension 8CH 3 | Heating = 0, Cooling = 1, Auto = 2 | R / W | uint16 |
| 23 | Current_Temperature_Zone 1 | Temperature in C * 10 | R | uint16 |
| 24 | Current_Temperature_Zone 2...48 | Temperature in C * 10 | R | uint16 |
| 71 | Zone_isHeating 1...16 | Refer the Table 1 | R | uint16 |
| 72 | Zone_isHeating 17...32 | Refer the Table 1 | R | uint16 |
| 73 | Zone_isHeating 33...48 | Refer the Table 1 | R | uint16 |
| 74 | Floor_Temperature_Zone 1 | Temperature in C * 10 | R | uint16 |
| 75-121 | Floor_Temperature_Zone 2...48 | Temperature in C * 10 | R | uint16 |
| 122 | Humidity_Zone 1 | Humidity in % * 10 | R | uint16 |
| 123-169 | Humidity_Zone 2...48 | Humidity in % * 10 | R | uint16 |
| 170 | Actuators_Opening_Level_Zone 1 | Opening in % | R | uint16 |
| 171-217 | Actuators_Opening_Level_Zone 2...48 | Opening in % | R | uint16 |
| 218 | Window_Opening_Zone 1...16 | Refer the Table 2 | R | uint16 |
| 219 | Window_Opening_Zone 17...32 | Refer the Table 2 | R | uint16 |
| 220 | Window_Opening_Zone 33...48 | Refer the Table 2 | R | uint16 |
| 221 | Set_Temperature_Zone 1 | Target Temperature in C * 10 | R / W | uint16 |
| 222-268 | Set_Temperature_Zone 2...28 | Target Temperature in C * 10 | R / W | uint16 |
| 269 | Current_External_Temperature | Temperature in C * 10 | R | uint16 |
| 270 | Zone 1 battery level | Battery level in % | R | uint16 |

| | | | | |
|-------------|---|--------------------------------------|-------|--------|
| 271-317 | Zone 2...48 battery level | Battery level in % | R | uint16 |
| 318 | Zone 1 signal level | Signal level in % | R | uint16 |
| 319-365 | Zone 2...48 signal level | Signal level in % | R | uint16 |
| 366 | Heating/Cooling status - Master L-12 | Heating = 0, Cooling = 1 | R | bool |
| 367 | Heating/Cooling status - Extension 8CH 1 | Heating = 0, Cooling = 1 | R | bool |
| 368 | Heating/Cooling status - Extension 8CH 2 | Heating = 0, Cooling = 1 | R | bool |
| 369 | Heating/Cooling status - Extension 8CH 3 | Heating = 0, Cooling = 1 | R | bool |
| 370 | Eco input status - Master L-12 | Inactive = 0, Active = 1 | R | bool |
| 371 | Eco input status - Extension 8CH 1 | Inactive = 0, Active = 1 | R | bool |
| 372 | Eco input status - Extension 8CH 2 | Inactive = 0, Active = 1 | R | bool |
| 373 | Eco input status - Extension 8CH 3 | Inactive = 0, Active = 1 | R | bool |
| 374 | Pump status - Master L-12 | Inactive = 0, Active = 1 | R | bool |
| 375 | Pump status - Extension 8CH 1 | Inactive = 0, Active = 1 | R | bool |
| 376 | Pump status - Extension 8CH 2 | Inactive = 0, Active = 1 | R | bool |
| 377 | Pump status - Extension 8CH 3 | Inactive = 0, Active = 1 | R | bool |
| 378 | Potential free contact status - Master L-12 | Inactive = 0, Active = 1 | R | uint16 |
| 379 | Potential free contact status - Extension 8CH 1 | Inactive = 0, Active = 1 | R | uint16 |
| 380 | Potential free contact status - Extension 8CH 2 | Inactive = 0, Active = 1 | R | uint16 |
| 381 | Potential free contact status - Extension 8CH 3 | Inactive = 0, Active = 1 | R | uint16 |
| 382 | Zone 1 actuator 1 signal level | Signal level in % | R | uint16 |
| 383 | Zone 1 actuator 2 signal level | Signal level in % | R | uint16 |
| 384 | Zone 1 actuator 3 signal level | Signal level in % | R | uint16 |
| 385 | Zone 1 actuator 4 signal level | Signal level in % | R | uint16 |
| 386 | Zone 1 actuator 5 signal level | Signal level in % | R | uint16 |
| 387 | Zone 1 actuator 6 signal level | Signal level in % | R | uint16 |
| 388-669 | Zone 2...48 actuator 6 signal level | Signal level in % | R | uint16 |
| 670 | Zone 1 actuator 1 battery level | Battery level in % | R | uint16 |
| 671 | Zone 1 actuator 2 battery level | Battery level in % | R | uint16 |
| 672 | Zone 1 actuator 3 battery level | Battery level in % | R | uint16 |
| 673 | Zone 1 actuator 4 battery level | Battery level in % | R | uint16 |
| 674 | Zone 1 actuator 5 battery level | Battery level in % | R | uint16 |
| 675 | Zone 1 actuator 6 battery level | Battery level in % | R | uint16 |
| 676-957 | Zone 2...48 actuator 6 battery level | Battery level in % | R | uint16 |
| 958 | Zone 1 window sensor 1 signal level | Signal level in % | R | uint16 |
| 959 | Zone 1 window sensor 2 signal level | Signal level in % | R | uint16 |
| 960 | Zone 1 window sensor 3 signal level | Signal level in % | R | uint16 |
| 961 | Zone 1 window sensor 4 signal level | Signal level in % | R | uint16 |
| 962 | Zone 1 window sensor 5 signal level | Signal level in % | R | uint16 |
| 963 | Zone 1 window sensor 6 signal level | Signal level in % | R | uint16 |
| 964-1245 | Zone 2...48 window sensor 6 signal level | Signal level in % | R | uint16 |
| 1246 | Zone 1 window sensor 1 battery level | Battery level in % | R | uint16 |
| 1247 | Zone 1 window sensor 2 battery level | Battery level in % | R | uint16 |
| 1248 | Zone 1 window sensor 3 battery level | Battery level in % | R | uint16 |
| 1249 | Zone 1 window sensor 4 battery level | Battery level in % | R | uint16 |
| 1250 | Zone 1 window sensor 5 battery level | Battery level in % | R | uint16 |
| 1251 | Zone 1 window sensor 6 battery level | Battery level in % | R | uint16 |
| 1252-1533 | Zone 2...48 window sensor 6 battery level | Battery level in % | R | uint16 |
| 1534 | Zone 1 floor sensor signal level | Signal level in % | R | uint16 |
| 1535-1581 | Zone 2...48 floor sensor signal level | Signal level in % | R | uint16 |
| 1582 | Zone 1 floor sensor battery level | Battery level in % | R | uint16 |
| 1583-1629 | Zone 2...48 floor sensor battery level | Battery level in % | R | uint16 |
| 1630 - 1635 | MW-1 signal level - Master L-12 | Signal level in % | R | uint16 |
| 1636 - 1641 | MW-1 signal level - Extension 8CH 1 | Signal level in % | R | uint16 |
| 1642 - 1647 | MW-1 signal level - Extension 8CH 2 | Signal level in % | R | uint16 |
| 1648 - 1653 | MW-1 signal level - Extension 8CH 3 | Signal level in % | R | uint16 |
| 1654 | Extension 8CH 1 signal level | Signal level in % | R | uint16 |
| 1655 | Extension 8CH 2 signal level | Signal level in % | R | uint16 |
| 1656 | Extension 8CH 3 signal level | Signal level in % | R | uint16 |
| 1657 | Zone 1 floor sensor mode | Off = 0, Protection = 1, Comfort = 2 | R / W | uint16 |
| 1658-1704 | Zone 2...48 floor sensor mode | Off = 0, Protection = 1, Comfort = 2 | R / W | uint16 |
| 1705 | Zone 1 floor sensor upper temperature | Temperature in C * 10 | R / W | uint16 |
| 1706-1752 | Zone 2...48 floor sensor upper temperature | Temperature in C * 10 | R / W | uint16 |
| 1753 | Zone 1 floor sensor bottom temperature | Temperature in C * 10 | R / W | uint16 |
| 1754-1800 | Zone 2...48 floor sensor bottom temperature | Temperature in C * 10 | R / W | uint16 |
| 1801 | External sensor signal level | Signal level in % | R | uint16 |
| 1802 | External sensor battery level | Battery level in % | R | uint16 |

| Table 1 | | | | |
|---------|--------------------|--------------------|--------------------|--------------------------|
| Bit# | Bit Description 71 | Bit Description 72 | Bit Description 73 | Note |
| 1 | Zone 1 | Zone 17 | Zone 33 | Inactive = 0, Active = 1 |
| 2 | Zone 2 | Zone 18 | Zone 34 | Inactive = 0, Active = 1 |
| 3 | Zone 3 | Zone 19 | Zone 35 | Inactive = 0, Active = 1 |
| 4 | Zone 4 | Zone 20 | Zone 36 | Inactive = 0, Active = 1 |
| 5 | Zone 5 | Zone 21 | Zone 37 | Inactive = 0, Active = 1 |
| 6 | Zone 6 | Zone 22 | Zone 38 | Inactive = 0, Active = 1 |
| 7 | Zone 7 | Zone 23 | Zone 39 | Inactive = 0, Active = 1 |
| 8 | Zone 8 | Zone 24 | Zone 40 | Inactive = 0, Active = 1 |
| 9 | Zone 9 | Zone 25 | Zone 41 | Inactive = 0, Active = 1 |
| 10 | Zone 10 | Zone 26 | Zone 42 | Inactive = 0, Active = 1 |
| 11 | Zone 11 | Zone 27 | Zone 43 | Inactive = 0, Active = 1 |
| 12 | Zone 12 | Zone 28 | Zone 44 | Inactive = 0, Active = 1 |
| 13 | Zone 13 | Zone 29 | Zone 45 | Inactive = 0, Active = 1 |
| 14 | Zone 14 | Zone 30 | Zone 46 | Inactive = 0, Active = 1 |
| 15 | Zone 15 | Zone 31 | Zone 47 | Inactive = 0, Active = 1 |
| 16 | Zone 16 | Zone 32 | Zone 48 | Inactive = 0, Active = 1 |

| Table 2 | | | | |
|---------|---------------------|---------------------|---------------------|---------------------|
| Bit# | Bit Description 218 | Bit Description 219 | Bit Description 220 | Note |
| 1 | Zone 1 | Zone 17 | Zone 33 | Close = 0, Open = 1 |
| 2 | Zone 2 | Zone 18 | Zone 34 | Close = 0, Open = 1 |
| 3 | Zone 3 | Zone 19 | Zone 35 | Close = 0, Open = 1 |
| 4 | Zone 4 | Zone 20 | Zone 36 | Close = 0, Open = 1 |
| 5 | Zone 5 | Zone 21 | Zone 37 | Close = 0, Open = 1 |
| 6 | Zone 6 | Zone 22 | Zone 38 | Close = 0, Open = 1 |
| 7 | Zone 7 | Zone 23 | Zone 39 | Close = 0, Open = 1 |
| 8 | Zone 8 | Zone 24 | Zone 40 | Close = 0, Open = 1 |
| 9 | Zone 9 | Zone 25 | Zone 41 | Close = 0, Open = 1 |
| 10 | Zone 10 | Zone 26 | Zone 42 | Close = 0, Open = 1 |
| 11 | Zone 11 | Zone 27 | Zone 43 | Close = 0, Open = 1 |
| 12 | Zone 12 | Zone 28 | Zone 44 | Close = 0, Open = 1 |
| 13 | Zone 13 | Zone 29 | Zone 45 | Close = 0, Open = 1 |
| 14 | Zone 14 | Zone 30 | Zone 46 | Close = 0, Open = 1 |
| 15 | Zone 15 | Zone 31 | Zone 47 | Close = 0, Open = 1 |
| 16 | Zone 16 | Zone 32 | Zone 48 | Close = 0, Open = 1 |

Example: Bit Description 218
 [0000000110001001]
 Bit 16 Bit 1

Open window in Zone: 1, 4, 8, 9

Vid behov kan parametrar för Modbus-kommunikation ändras i "Service-menyn" > "Modbus".

Slavadress Standard "1". Kan ställas in på mellan 1 och 247.

Ordlängd Standard: "8-bitars ord". Kan även ställas in på 9-bitars ord.

Parity bit Standard "Jämn paritetsbit". Kan också ställas in på "Paritetsbit – ingen" eller "Udda paritetsbit".

Stop bit Standard "En stoppbit". Kan även ställas in på "Två stoppbitar".