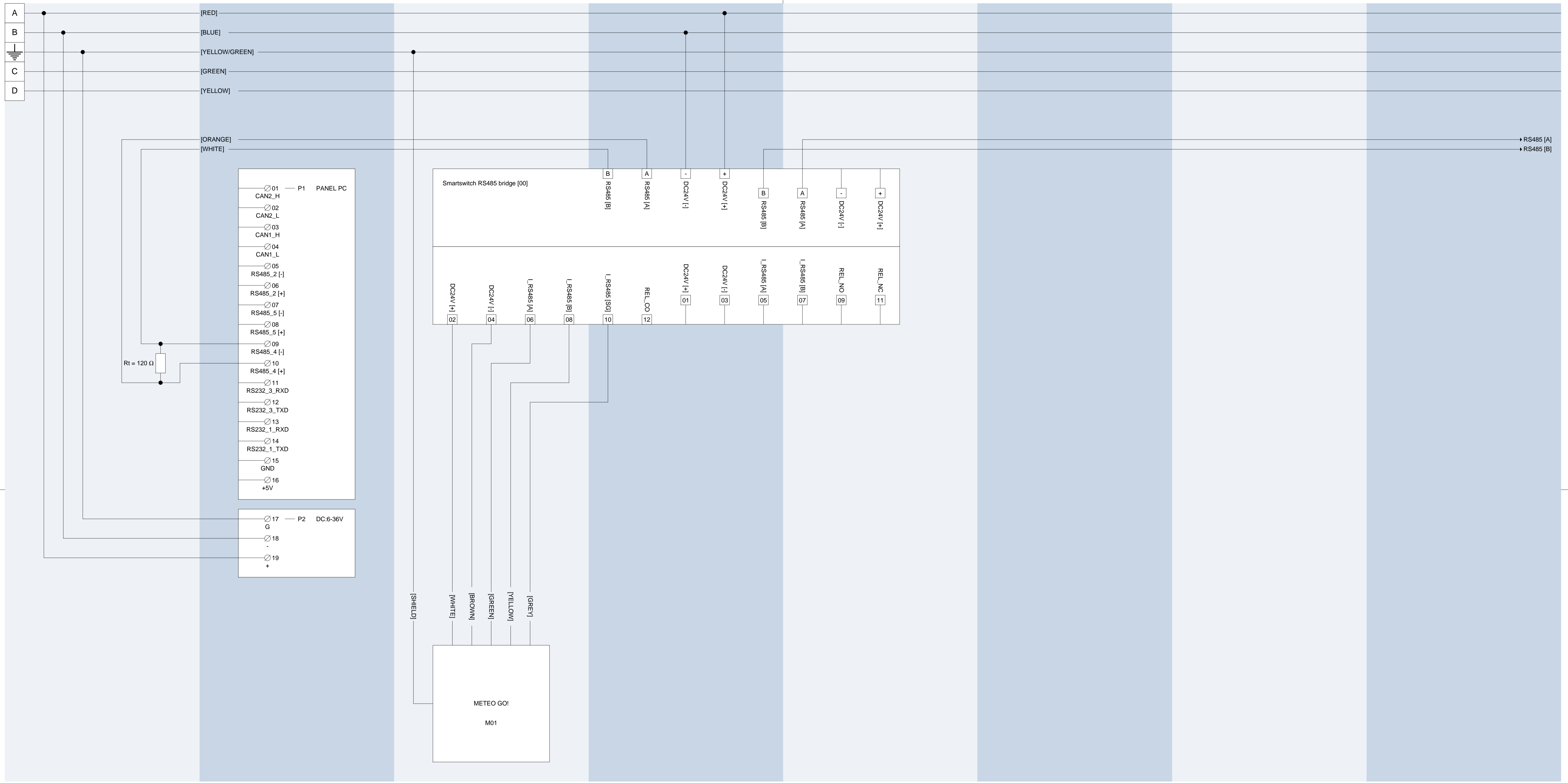


- X: MAINSWITCH
- PE: PROTECTIVE GROUND TERMINAL
- T01: THERM./MAX. PROTECTION SYSTEM PUMP
- C01: CONTACTOR SYSTEM PUMP
- P01: SYSTEM PUMP
- T02: THERM./MAX. PROTECTION FILLING PUMP
- C02: CONTACTOR FILLING PUMP
- P02: FILLING PUMP
- Z1: CIRCUIT BREAKER
- PS1: POWER SUPPLY AC110-240V / DC24V
- PS2: POWER SUPPLY AC230-520V / AC24V

MAINS: 3P230V-N+PE 60Hz  
 FUSE MAX: 16 [A]



PROJECTNUMBER: <b>PD15.003</b>	DRAWINGSSCALE: <b>1 : 1</b>	DRAWINGUNITS: <b>mm</b>	AUTHOR: <b>MB</b>	CREATION DATE: <b>10/10/2016</b>
PROJECTNAME: <b>HortiMax Go</b>	AUTHORISED: <b>AddK</b>	REVISION DATE: <b>01/04/2018</b>		
SUBJECT: <b>CIRCUIT DIAGRAM_1</b>	PAGE: <b>4 OF 12</b>	STATUS: <b>INTERNAL</b>		
FILENAME: <b>160314DRA030 044 HortiMax Go-PRO aqua controller [3P230V-N+PE 60Hz] drawing.vsd</b>				

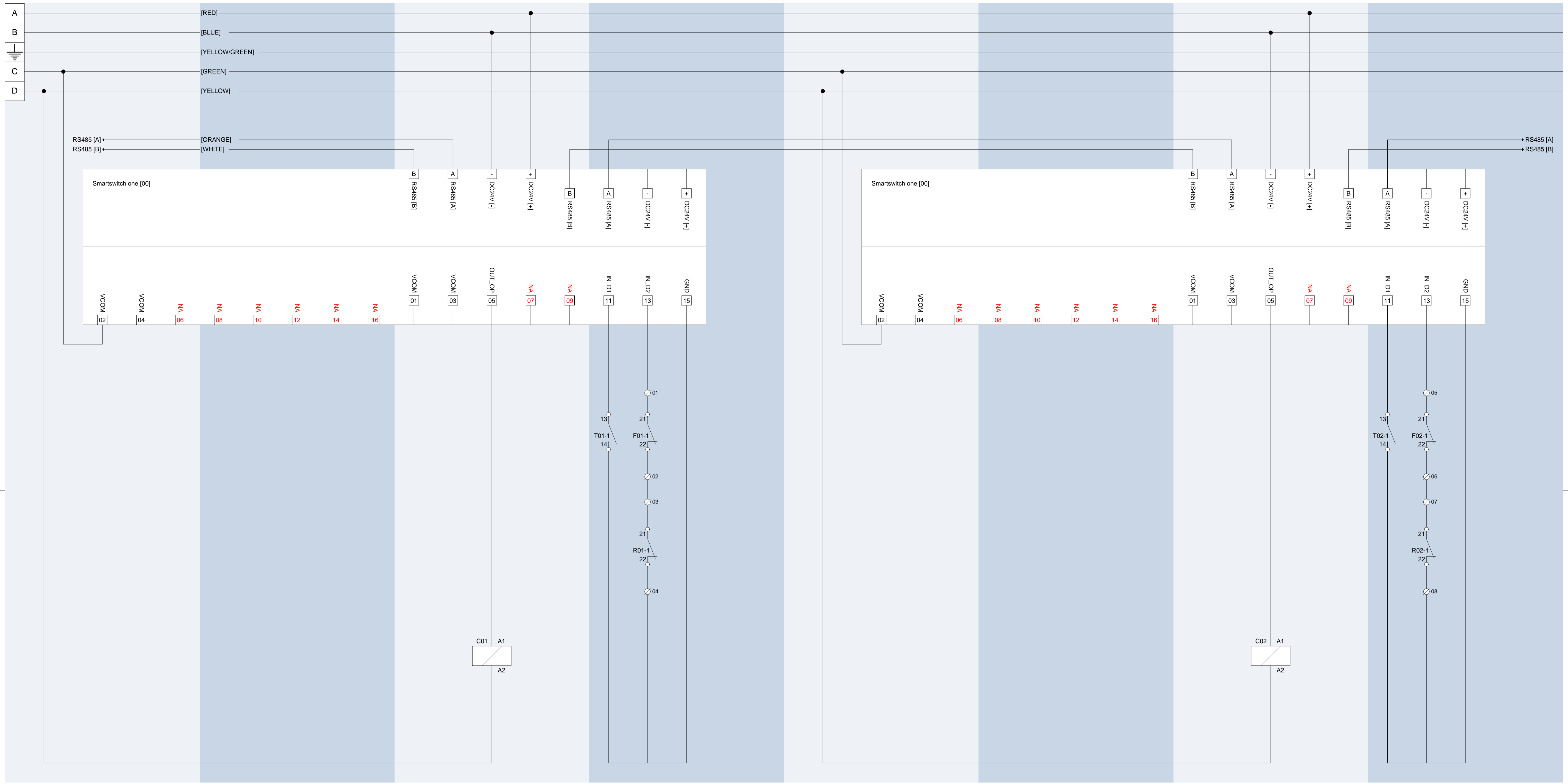


Rt: BUS TERMINATION RESISTOR

M01: METEO STATION



PROJECTNUMBER: <b>PD15.003</b>	DRAWINGSSCALE: <b>1 : 1</b>	DRAWINGUNITS: <b>mm</b>	AUTHOR: <b>MB</b>	CREATION DATE: <b>10/10/2016</b>
PROJECTNAME: <b>HortiMaX Go</b>	AUTHORISED: <b>AddK</b>		REVISION DATE: <b>01/04/2018</b>	
SUBJECT: <b>CIRCUIT DIAGRAM_2</b>	PAGE: <b>5 OF 12</b>		STATUS: <b>INTERNAL</b>	
FILENAME: <b>160314DRA030 044 HortiMaX Go-PRO aqua controller [3P230V-N+PE 60Hz] drawing.vsd</b>				



C01: CONTACTOR SYSTEM PUMP

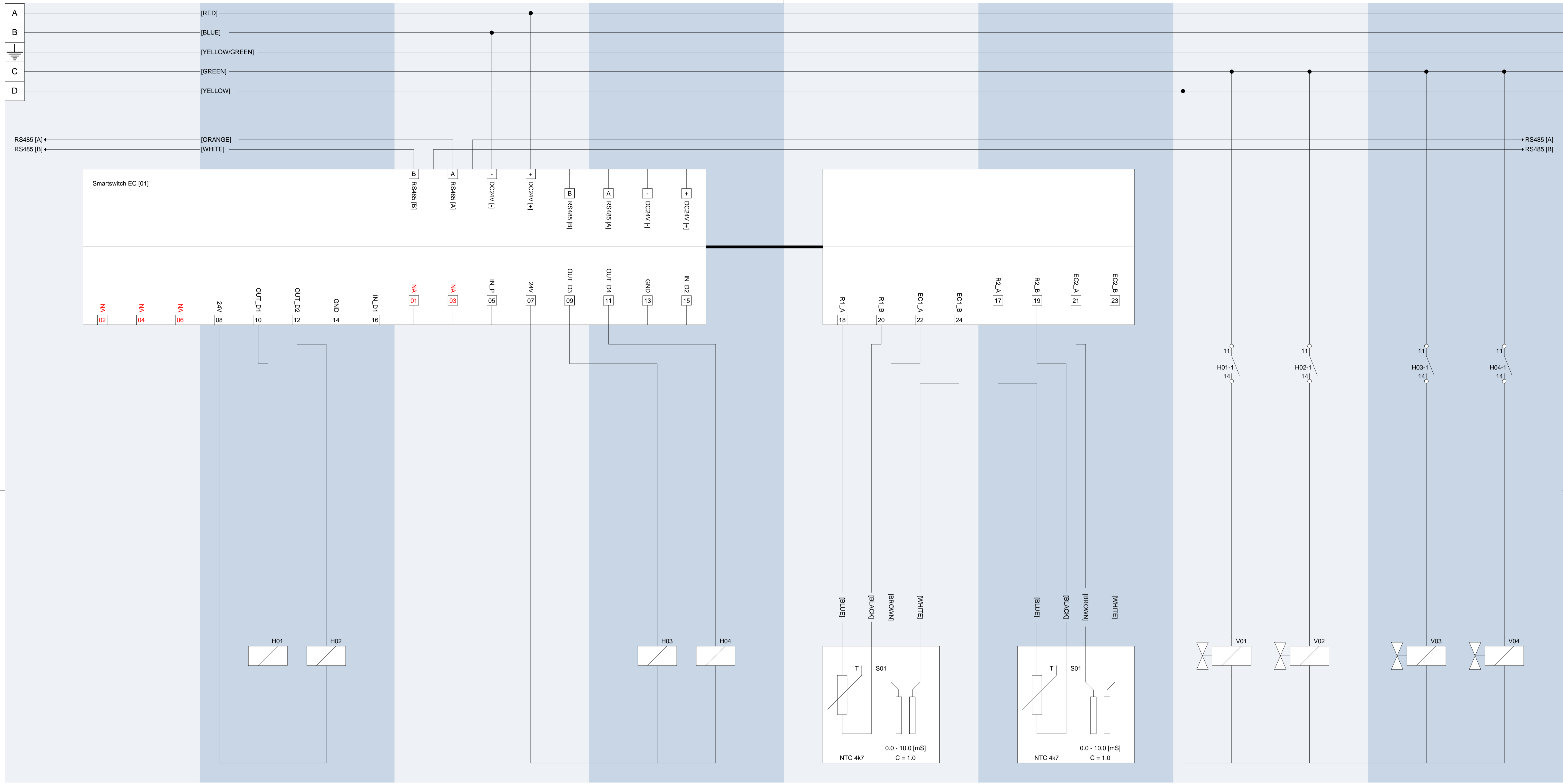
- T01-1: THERM./MAX. PROTECTION SYSTEM PUMP
- R01-1: THERMOSTAT SYSTEM PUMP
- F01-1: MINIMUM LEVEL FLOAT SYSTEM PUMP

C02: CONTACTOR FILLING PUMP

- T02-1: THERM./MAX. PROTECTION FILLING PUMP
- R02-1: THERMOSTAT FILLING PUMP
- F02-1: MAXIMUM LEVEL FLOAT FILLING PUMP



PROJECTNUMBER: <b>PD15.003</b>	DRAWINGSCALE: <b>1 : 1</b>	DRAWINGUNITS: <b>mm</b>	AUTHOR: <b>MB</b>	CREATION DATE: <b>10/10/2016</b>
PROJECTNAME: <b>HortiMax Go</b>	AUTHORISED: <b>AddK</b>		REVISION DATE: <b>01/04/2018</b>	
SUBJECT: <b>CIRCUIT DIAGRAM_3</b>	PAGE: <b>6 OF 12</b>		STATUS: <b>INTERNAL</b>	
FILENAME: <b>160314DRA030 044 HortiMax Go-PRO aqua controller [3P230V-N+PE 60Hz] drawing.vsd</b>				



H01: EC DOSAGE VALVE 1  
H02: EC DOSAGE VALVE 2

H03: EC DOSAGE VALVE 3  
H04: EC DOSAGE VALVE 4

S01: EC SENSOR 1

S02: EC SENSOR 2

H01-1: EC DOSAGE VALVE 1  
H02-1: EC DOSAGE VALVE 2

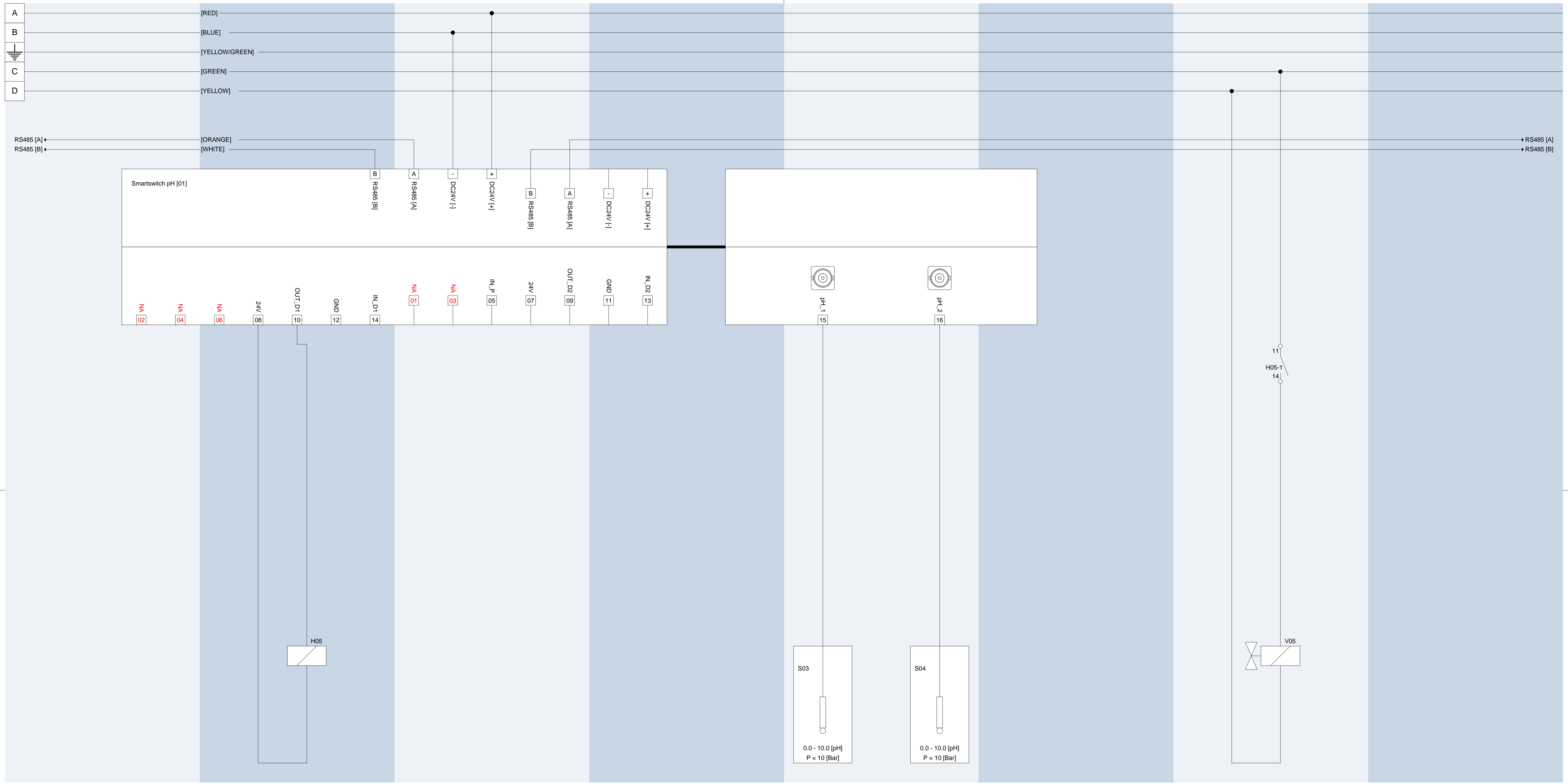
H03-1: EC DOSAGE VALVE 3  
H04-1: EC DOSAGE VALVE 4

V01: SOLENOID EC DOSAGE VALVE 1 [FERTILIZER 1]  
V02: SOLENOID EC DOSAGE VALVE 2 [FERTILIZER 2]

V03: SOLENOID EC DOSAGE VALVE 3 [FERTILIZER 3]  
V04: SOLENOID EC DOSAGE VALVE 4 [FERTILIZER 4]



PROJECTNUMBER: <b>PD15.003</b>	DRAWINGSCALE: <b>1 : 1</b>	DRAWINGUNITS: <b>mm</b>	AUTHOR: <b>MB</b>	CREATION DATE: <b>10/10/2016</b>
PROJECTNAME: <b>HortiMaX Go</b>	AUTHORISED: <b>AddK</b>		REVISION DATE: <b>01/04/2018</b>	
SUBJECT: <b>CIRCUIT DIAGRAM_4</b>	PAGE: <b>7 OF 12</b>		STATUS: <b>INTERNAL</b>	
FILENAME: <b>160314DRA030 044 HortiMaX Go-PRO aqua controller [3P230V-N+PE 60Hz] drawing.vsd</b>				



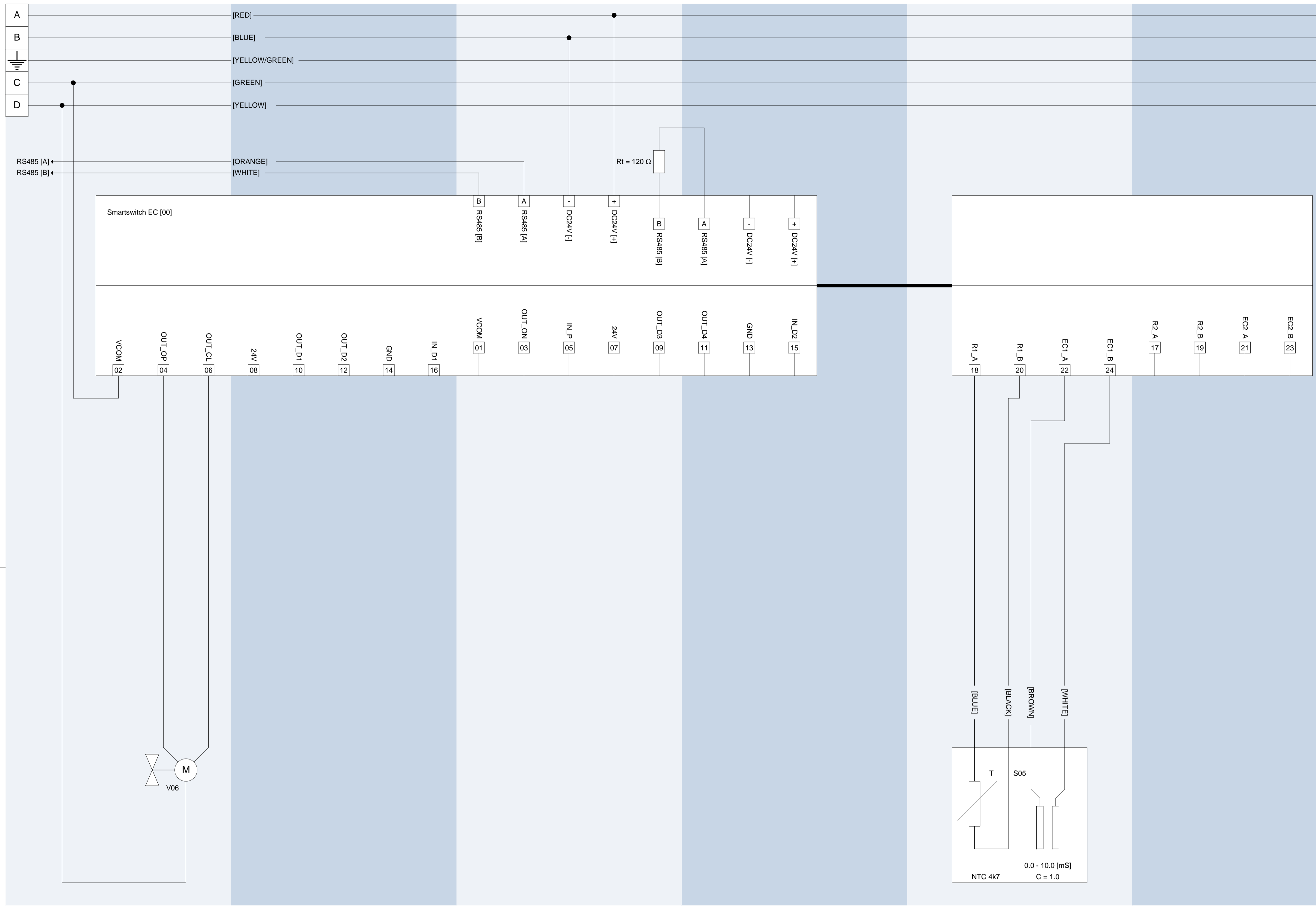
H05: pH DOSAGE VALVE 1

S03: pH SENSOR 1  
S04: pH SENSOR 2

H05-1: pH DOSAGE VALVE 1  
V05: SOLENOID pH DOSAGE VALVE 1 [ACID]



PROJECTNUMBER: <b>PD15.003</b>	DRAWINGSSCALE: <b>1 : 1</b>	DRAWINGUNITS: <b>mm</b>	AUTHOR: <b>MB</b>	CREATION DATE: <b>10/10/2016</b>
PROJECTNAME: <b>HortiMax Go</b>	AUTHORISED: <b>AddK</b>		REVISION DATE: <b>01/04/2018</b>	
SUBJECT: <b>CIRCUIT DIAGRAM_4</b>	PAGE: <b>8 OF 12</b>		STATUS: <b>INTERNAL</b>	
FILENAME: <b>160314DRA030 044 HortiMax Go-PRO aqua controller [3P230V-N+PE 60Hz] drawing.vsd</b>				



V06: SUPPLY EC MOTOR VALVE

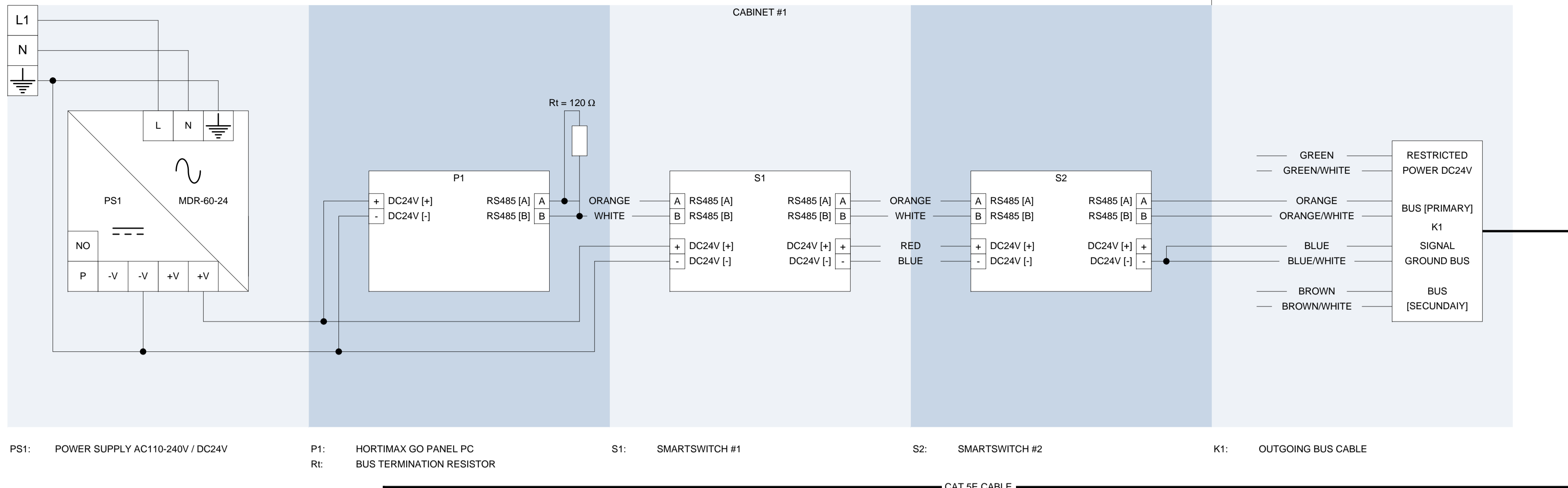
Rt: BUS TERMINATION RESISTOR

S05: EC SENSOR 3



PROJECTNUMBER: <b>PD15.003</b>	DRAWINGSSCALE: <b>1 : 1</b>	DRAWINGUNITS: <b>mm</b>	AUTHOR: <b>MB</b>	CREATION DATE: <b>10/10/2016</b>
PROJECTNAME: <b>HortiMaX Go</b>	AUTHORISED: <b>AddK</b>		REVISION DATE: <b>01/04/2018</b>	
SUBJECT: <b>CIRCUIT DIAGRAM_4</b>	PAGE: <b>9 OF 12</b>		STATUS: <b>INTERNAL</b>	
FILENAME: <b>160314DRA030 044 HortiMaX Go-PRO aqua controller [3P230V-N+PE 60Hz] drawing.vsd</b>				





- The applied bus cable has to be CAT 5E or better.
- The applied bus cable has a specific impedance,  $Z_0$ , of 100 [Ω]
- It is preferable that the applied bus cable is mechanically enhanced.
- On the bus cable no stubs should occur.
- The maximum number of Smartswitches on the RS485 bus is 32, that are 33 devices including the Touchscreen Panel PC.
- The bus cable has to be terminated on both outer ends by means of a bus termination resistor of 120 [Ω].
- The maximum bus cable length is 500 [m].

