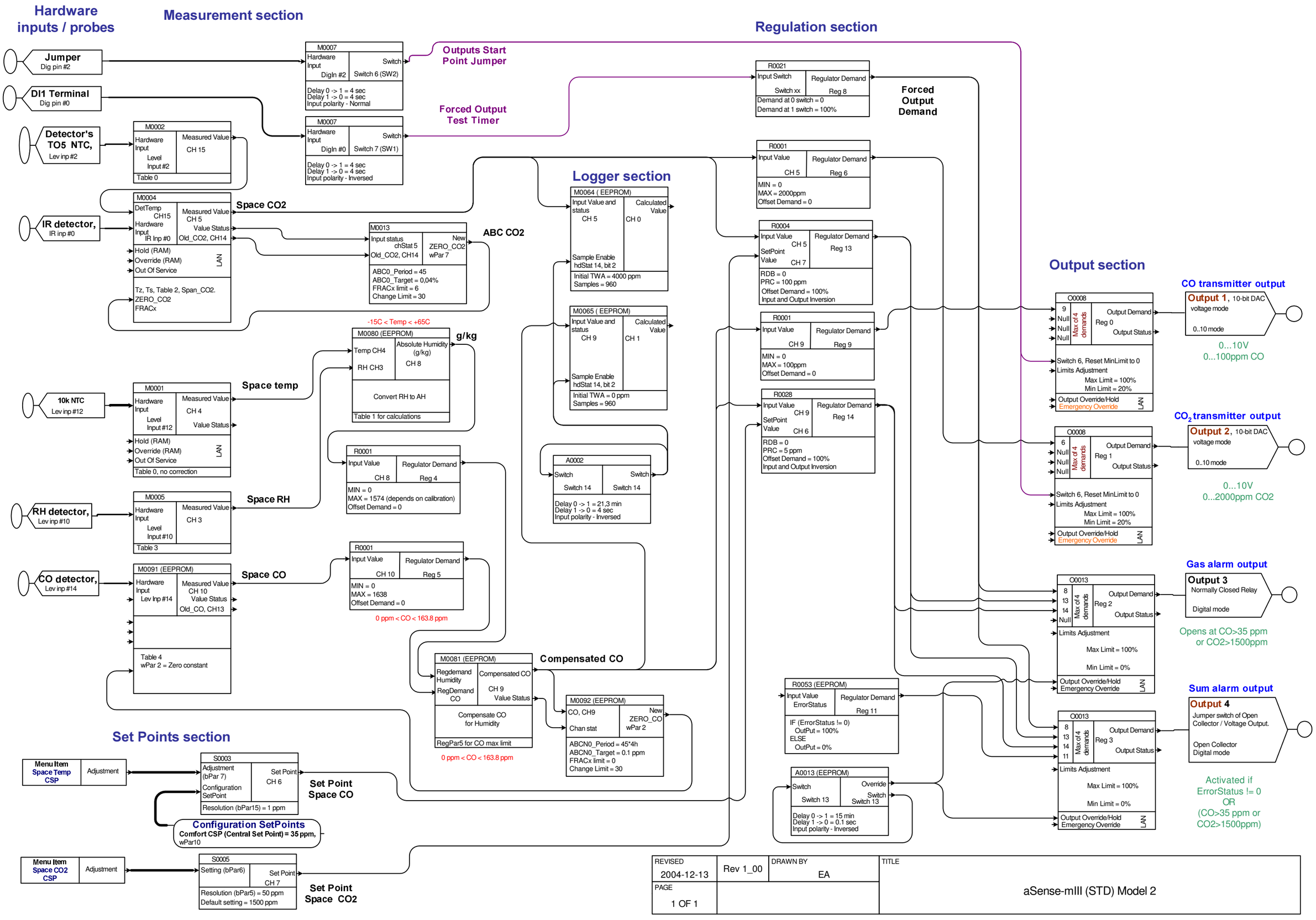
Hardware inputs / probes
Measurement section
Regulation section
Logger section
Output section
Set Points section
Jumper
Dig pin #2
DI1 Terminal
Dig pin #0
Detector's TO5 NTC,
Lev inp #2
IR detector,
IR inp #0
10k NTC
Lev inp #12
RH detector,
Lev inp #10
CO detector,
Lev inp #14
M0007
Hardware Input
DigIn #2
Switch
Switch 6 (SW2)
Delay 0 -> 1 = 4 sec
Delay 1 -> 0 = 4 sec
Input polarity - Normal
Outputs Start Point Jumper
M0007
Hardware Input
DigIn #0
Switch
Switch 7 (SW1)
Delay 0 -> 1 = 4 sec
Delay 1 -> 0 = 4 sec
Input polarity - Inversed
Forced Output Test Timer
M0002
Hardware Input
Level Input #2
Measured Value
CH 15
Table 0
M0004
DetTemp CH15
Hardware Input
IR Inp #0
Measured Value
CH 5
Value Status
Old_CO2, CH14
Hold (RAM)
Override (RAM)
Out Of Service
LAN
Tz, Ts, Table 2, Span_CO2.
ZERO_CO2
FRACx
Space CO2
M0013
Input status
chStat 5
Old_CO2, CH14
New
ZERO_CO2
wPar 7
ABC0_Period = 45
ABC0_Target = 0,04%
FRACx limit = 6
Change Limit = 30
ABC CO2
M0001
Hardware Input
Level Input #12
Measured Value
CH 4
Value Status
Hold (RAM)
Override (RAM)
Out Of Service
LAN
Table 0, no correction
Space temp
-15C < Temp < +65C
M0080 (EEPROM)
Temp CH4
RH CH3
Absolute Humidity (g/kg)
CH 8
Convert RH to AH
Table 1 for calculations
g/kg
M0005
Hardware Input
Level Input #10
Measured Value
CH 3
Table 3
Space RH
R0001
Input Value
CH 8
Regulator Demand
Reg 4
MIN = 0
MAX = 1574 (depends on calibration)
Offset Demand = 0
M0091 (EEPROM)
Hardware Input
Lev Inp #14
Measured Value
CH 10
Value Status
Old_CO, CH13
Table 4
wPar 2 = Zero constant
Space CO
R0001
Input Value
CH 10
Regulator Demand
Reg 5
MIN = 0
MAX = 1638
Offset Demand = 0
0 ppm < CO < 163.8 ppm
M0081 (EEPROM)
Regdemand Humidity
RegDemand CO
Compensated CO
CH 9
Value Status
Compensate CO for Humidity
RegPar5 for CO max limit
0 ppm < CO < 163.8 ppm
Compensated CO
M0092 (EEPROM)
CO, CH9
Chan stat
New
ZERO_CO
wPar 2
ABCN0_Period = 45*4h
ABCN0_Target = 0.1 ppm
FRACx limit = 0
Change Limit = 30
M0064 (EEPROM)
Input Value and status
CH 5
Calculated Value
CH 0
Sample Enable
hdStat 14, bit 2
Initial TWA = 4000 ppm
Samples = 960
M0065 (EEPROM)
Input Value and status
CH 9
Calculated Value
CH 1
Sample Enable
hdStat 14, bit 2
Initial TWA = 0 ppm
Samples = 960
A0002
Switch
Switch 14
Switch
Switch 14
Delay 0 -> 1 = 21,3 min
Delay 1 -> 0 = 4 sec
Input polarity - Inversed
R0021
Input Switch
Switch xx
Regulator Demand
Reg 8
Demand at 0 switch = 0
Demand at 1 switch = 100%
Forced Output Demand
R0001
Input Value
CH 5
Regulator Demand
Reg 6
MIN = 0
MAX = 2000ppm
Offset Demand = 0
R0004
Input Value
CH 5
SetPoint Value
CH 7
Regulator Demand
Reg 13
RDB = 0
PRC = 100 ppm
Offset Demand = 100%
Input and Output Inversion
R0001
Input Value
CH 9
Regulator Demand
Reg 9
MIN = 0
MAX = 100ppm
Offset Demand = 0
R0028
Input Value
CH 9
SetPoint Value
CH 6
Regulator Demand
Reg 14
RDB = 0
PRC = 5 ppm
Offset Demand = 100%
Input and Output Inversion
R0053 (EEPROM)
Input Value ErrorStatus
Regulator Demand
Reg 11
IF (ErrorStatus != 0)
OutPut = 100%
ELSE
OutPut = 0%
A0013 (EEPROM)
Switch
Switch 13
Override Switch
Switch 13
Delay 0 -> 1 = 15 min
Delay 1 -> 0 = 0.1 sec
Input polarity - Inversed
O0008
9
Null
Null
Null
Max of 4 demands
Output Demand
Reg 0
Output Status
Switch 6, Reset MinLimit to 0
Limits Adjustment
Max Limit = 100%
Min Limit = 20%
Output Override/Hold
Emergency Override
LAN
CO transmitter output
Output 1, 10-bit DAC
voltage mode
0..10 mode
0...10V
0...100ppm CO
O0008
6
Null
Null
Null
Max of 4 demands
Output Demand
Reg 1
Output Status
Switch 6, Reset MinLimit to 0
Limits Adjustment
Max Limit = 100%
Min Limit = 20%
Output Override/Hold
Emergency Override
LAN
CO2 transmitter output
Output 2, 10-bit DAC
voltage mode
0..10 mode
0...10V
0...2000ppm CO2
O0013
8
13
14
Null
Max of 4 demands
Output Demand
Reg 2
Output Status
Limits Adjustment
Max Limit = 100%
Min Limit = 0%
Output Override/Hold
Emergency Override
LAN
Gas alarm output
Output 3
Normally Closed Relay
Digital mode
Opens at CO>35 ppm
or CO2>1500ppm
O0013
8
13
14
11
Max of 4 demands
Output Demand
Reg 3
Output Status
Limits Adjustment
Max Limit = 100%
Min Limit = 0%
Output Override/Hold
Emergency Override
LAN
Sum alarm output
Output 4
Jumper switch of Open Collector / Voltage Output.
Open Collector
Digital mode
Activated if
ErrorStatus != 0
OR
(CO>35 ppm or
CO2>1500ppm)
Menu Item
Space Temp CSP
Adjustment
S0003
Adjustment (bPar 7)
Configuration SetPoint
Set Point
CH 6
Resolution (bPar15) = 1 ppm
Set Point Space CO
Configuration SetPoints
Comfort CSP (Central Set Point) = 35 ppm,
wPar10
Menu Item
Space CO2 CSP
Adjustment
S0005
Setting (bPar6)
Set Point
CH 7
Resolution (bPar5) = 50 ppm
Default setting = 1500 ppm
Set Point Space CO2
REVISED
2004-12-13
Rev 1_00
DRAWN BY
EA
PAGE
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TITLE
aSense-mIII (STD) Model 2