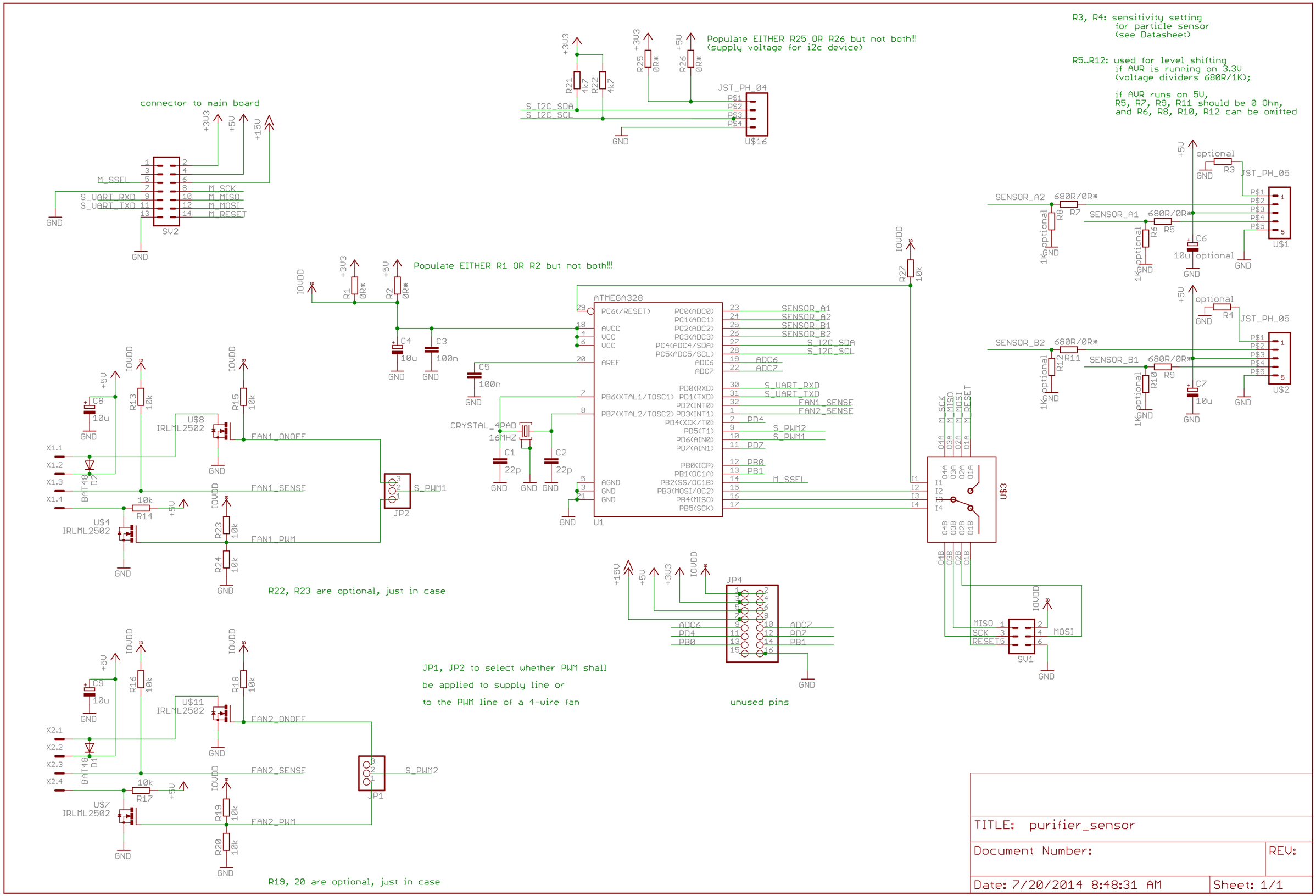
R3, R4: sensitivity setting
for particle sensor
(see Datasheet)
R5..R12: used for level shifting
if AVR is running on 3.3V
(voltage dividers 680R/1K);
if AVR runs on 5V,
R5, R7, R9, R11 should be 0 Ohm,
and R6, R8, R10, R12 can be omitted
Populate EITHER R25 OR R26 but not both!!!
(supply voltage for i2c device)
JST_PH_04
U$16
S_I2C_SDA
S_I2C_SCL
connector to main board
SV2
M_SSEL
M_SCK
M_MISO
M_MOSI
M_RESET
S_UART_RXD
S_UART_TXD
Populate EITHER R1 OR R2 but not both!!!
ATMEGA328
U1
CRYSTAL_4PAD
16MHZ
SENSOR_A1
SENSOR_A2
SENSOR_B1
SENSOR_B2
ADC6
ADC7
FAN1_SENSE
FAN2_SENSE
PD4
PD7
PB0
PB1
S_PWM2
S_PWM1
JST_PH_05
U$1
U$2
U$3
U$8
U$4
U$11
U$7
IRLML2502
FAN1_ONOFF
FAN1_PWM
FAN2_ONOFF
FAN2_PWM
JP2
JP1
JP4
SV1
MISO
SCK
RESET5
MOSI
R22, R23 are optional, just in case
R19, 20 are optional, just in case
JP1, JP2 to select whether PWM shall
be applied to supply line or
to the PWM line of a 4-wire fan
unused pins
TITLE: purifier_sensor
Document Number:
REV:
Date: 7/20/2014 8:48:31 AM
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