Schematic — manhole

Sensor headers (left)

MQ135
5V	1
GND	2
MQ135D0	3
MQ135A0	4

MQ7
5V	1
GND	2
MQ7D0	3
MQ7A0	4

MQ2
5V	1
GND	2
MQ2D0	3
MQ2A0	4

MQ03
5V	1
GND	2
MQ3D0	3
MQ3A0	4

NAV_BUTTON

GND	8	7	OK
UP	6	5	LEFT
DOWN	4	3	RIGHT
BACK	2	1	5V

VCC

DISP

GND	8	7	SCK
	6	5	MOSI
RST	4	3	SS
	2	1	5V

RGB resistors

RED1 — R1 300r — RED
GREEN1 — R2 300r — GREEN
BLUE1 — R3 300r — BLUE

U$1

BLUE	P$1 — BLUE
GREEN	P$2 — GREEN
GND	P$3 — GND
RED	P$4 — RED

NANO / JP2 / JP1

JP2
Pin	Signal
15	D0
14	D1
13	RESET_13
12	GND_1
11	D2
10	D3
9	D4
8	D5
7	OK
6	LEFT
5	RIGHT
4	BACK
3	SS
2	MOSI
1	RST

NANO
Left			Right
D0/TX	1	30	VIN
D1/RX	2	29	GND_2
RESET_1	13	28	RESET_2
GND_1	4	27	5V0
D2	5	26	BLUE1
D3	6	25	GREEN1
D4	7	24	RED1
D5	8	23	MQ135A0
D6	9	22	MQ7A0
D7	10	21	MQ2A0
D8	11	20	MQ3A0
D9	12	19	A0
D10	13	18	AREF
D11	14	17	3V3
D12	15	16	SCK

JP1
Pin	Signal
1	VIN
2	GND
3	RESET_2
4	5V0
5	BLUE1
6	GREEN1
7	RED1
8	MQ135A0
9	MQ7A0
10	MQ2A0
11	MQ3A0
12	A0
13	AREF
14	3V3
15	SCK

Power supply

DC_JACK — 9_IN — GND
R11 1k — N$2 — D3 — GND
R4 1k — N$1 — D2 — GND — 5V

IC1 7805TV
9_IN	1 VI
VO 3	5V
GND 2	GND

C1 +, C2 +