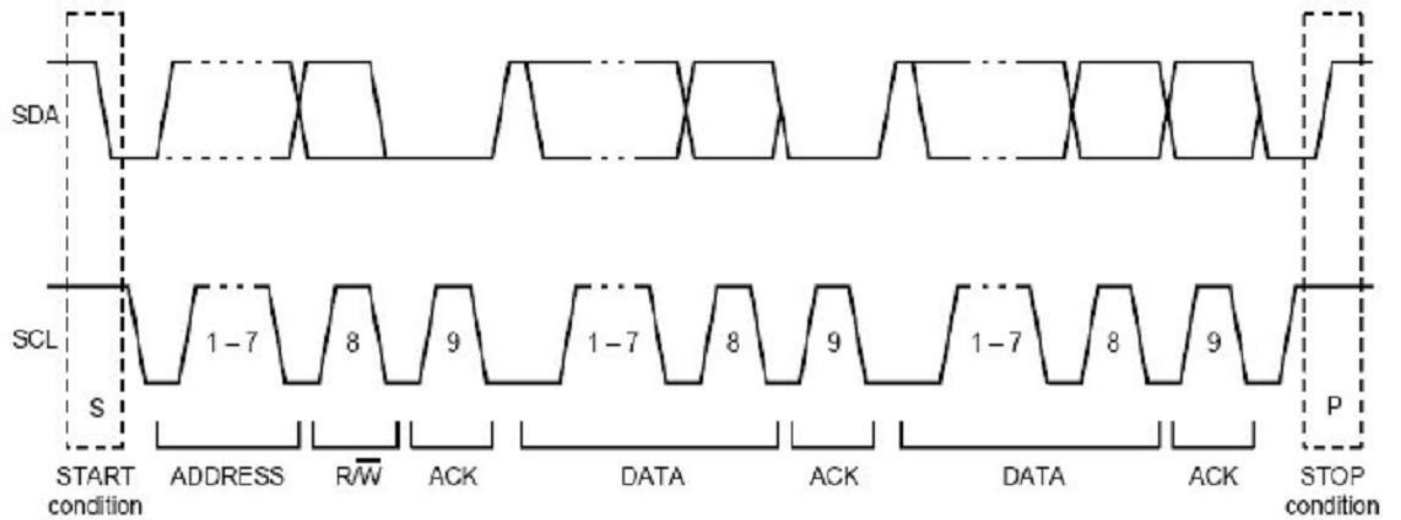


## I2C INTERFACE

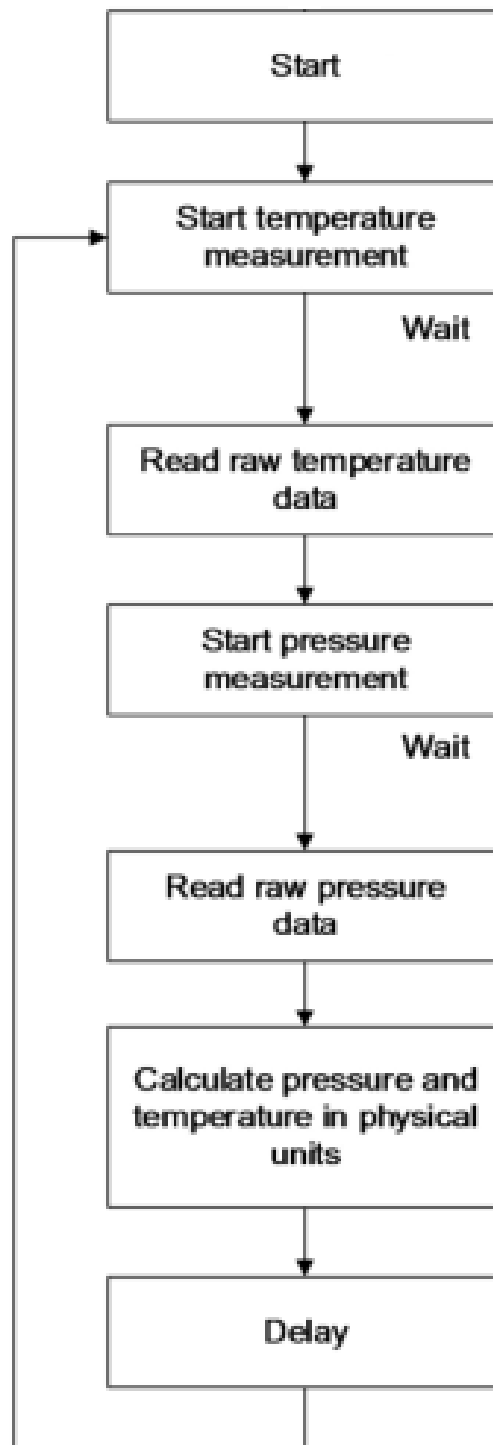
### ● IIC Device Address

	Device Address							IIC W/R
	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Default	1	1	0	1	1	0	1	0/1

### ● IIC Protocol



## PRESSURE AND TEMPERATURE ORDER



# WF100D Series

Low-Power, High-Resolution  
Pressure Sensor

## Start

TMIN=-40°C TMAX=85°C TREF=25°C



## Read digital pressure and temperature data

Reg	Description		R/W	Default
0x30	CMD	0x0A, 进行一次输出 0x0B, 持续输出 0x1B, 62.5ms 间隔输出 0x2B, 125ms 间隔输出 0xFB, 1s 间隔输出	W	0x00
0x06	PRESSURE_MSB	Press out<23:16>	R	0x00
0x07	PRESSURE_CSB	Press out<15:8>	R	0x00
0x08	PRESSURE_LSB	Press out<7:0>	R	0x00
0x09	TEMP_MSB	Temp out<15:8>	R	0x00
0x0A	TEMP_LSB	Temp out<7:0>	R	0x00
0x02	STATUS	发送完 CMD 后, 轮询 STATUS 的 bit0 值判断转换是否完成, 注意该数据被读取后会自动清零	R	0x00

\*Reg0x06-Reg0x08: 24 bits ADC output data with an LSB



## Calculate

	Size [bit]	Zero Condition	Below Zero	Above Zero
PRESSURE	24	8388608	long ad = PRESSURE_MSB; ad << 8; ad  = PRESSURE_CSB; ad << 8; ad  = PRESSURE_LSB; float v = ad / 8388608;	long ad = PRESSURE_MSB; ad << 8; ad  = PRESSURE_CSB; ad << 8; ad  = PRESSURE_LSB; float v = (ad - 16777216) / 8388608;
TEMP	16	32768	long ad = TEMP_MSB; ad << 8; ad  = PRESSURE_LSB; float v = ad / 256;	long ad = TEMP_MSB; ad << 8; ad  = PRESSURE_LSB; float v = (ad - 65536) / 256;

\* PRESSURE: It also needs to be converted according to the pressure range, Using the driver C code is strongly recommended. Please contact with WFH for details.

# WF100D Series

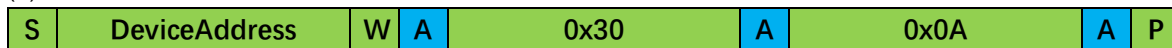
Low-Power, High-Resolution  
Pressure Sensor

## ● IIC timing diagram



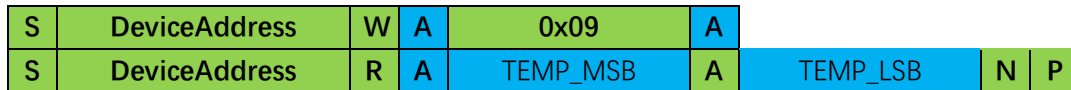
### Write Data (IIC Write)

(a) conversion command



### Read Data (IIC Read)

(a) After sending the temperature conversion command, read 16bit data from the output buffer



(b) After sending the pressure conversion command, read 24bit data from the output buffer

