

6. Interface to ultra-sonic sensor

6.1. Transmission Parameter I²C

Standard Mode 100 kHz

6.2. Protocol

Read Word Format

S	ADDRESS	WR	ACK	COMMAND	ACK	P	S	ADDRESS	RD	ACK	DATA	ACK	DATA	///	P
	7 bits			8 bits				7 bits			8 bits (MSB)		8 bits (LSB)		
	Save Address: equivalent to chip- select line			Command Byte: Selects register you are reading from				Slave Address repeated Due to change in data-flow direction			Data Bytes: reads from the register set by the command byte				

S = Start condition

P = Stop condition

Shaded = Slave transmission

/// = Not acknowledged