

## Communication Parameters:

19200,8,n,1 = 19200 baud, 8 bit, no parity, 1 stop bit

Requires at least 3ms between answers and query.

## Basic Registers:

Address (Hex)	Read/Write	Section	Range	Description
0x0001	R	Bit 0..7	5	Firmware Version
		Bit 8..15	0x58	Firmware Model Id = Isp508
			0x46	Firmware Model Id = Isp416
0x0002	R	Bit 0..7	1	Boot (Hardware) Version
		Bit 8..15	0x58	Boot (Hardware) Model Id = Isp508
			0x46	Boot (Hardware) Model Id = Isp416
0x000F	W	Bit 0..15	0x0001	Channel 1 Toggle Simulation " <i>dec=1</i> "
			0x0002	Channel 2 Toggle Simulation " <i>dec=2</i> "
			...	...
			0x0010	Channel 16 Toggle Simulation " <i>dec=16</i> "
			0x0081	Reset Key Press Simulation " <i>dec=129</i> " ( <i>single shot</i> )
			0x0082	Horn Key Toggle Simulation " <i>dec=130</i> " ( <i>toggle</i> )
			0x0083	Test Key Press Simulation " <i>dec=131</i> " ( <i>press</i> )
			0x0084	Acknowledge Key Press Simulation " <i>dec=132</i> " ( <i>single shot</i> )
0x0085	Test Key De-press Simulation " <i>dec=133</i> "( <i>release</i> )			

# Isp416 Modbus Register Maps

Rev3

Signal Status Registers:

Address (Hex)	Read/Write	Section	Range	Description	
0x0033	R	Bit 0	0/1	1= Config Eeprom Contents Valid	
		Bit 1		1= Configuration Updated since last power cycle	
		Bit 2		1= Front Panel Configuration Mode Pending	
		Bit 3		1= Test Mode Pending	
		Bit 4		1= Horn Enabled, 0=Horn Disabled	
		Bit 8		1= Output #1 Active (horn)	
		Bit 9		1= Output #2 Active (bell)	
		Bit 11		1= Output #3 (fault)	
0x0034	R	Bit 0	0/1	Input #1	Input States 0=Normal, 1=Abnormal
		Bit 1		Input #2	
		...		...	
		Bit 15		Input #16	
0x0035	R	Bit 0	0/1	Input #1	Activity Register States 0=Inactive, 1=Active (Indicating not yet Acked by User)
		Bit 1		Input #2	
		...		...	
		Bit 15		Input #16	
0x0036	R	Bit 0	0/1	Input #1	Holding Register States 0=Normal, 1=Holding (Indicating already Acked but Abnormal)
		Bit 1		Input #2	
		...		...	
		Bit 15		Input #16	

# Isp416 Modbus Register Maps

Rev3

ISA18.1 Configuration Dependant Registers:

Address (Hex)	Read/Write	Section	Range	Description	
0x0038	R	Bit 0	0/1	Input #1	First Alarm Indication States 0=Normal, 1=Alarm
		Bit 1		Input #2	
		...		...	
		Bit 15		Input #16	
0x0039	R	Bit 0	0/1	Input #1	Momentary Indication States 0=Normal, 1=Momentary
		Bit 1		Input #2	
		...		...	
		Bit 15		Input #16	
0x003A	R	Bit 0	0/1	Input #1	Acknowledged Indication States 0=Normal, 1=Acknowledged
		Bit 1		Input #2	
		...		...	
		Bit 15		Input #16	
0x003B	R	Bit 0	0/1	Input #1	Ringback Indication States 0=Normal, 1=Ringback
		Bit 1		Input #2	
		...		...	
		Bit 15		Input #16	
0x003C	R	Bit 0	0/1	Input #1	Red Color Indication States 0=Normal, 1=Red
		Bit 1		Input #2	
		...		...	
		Bit 15		Input #16	
0x003D	R	Bit 0	0/1	Input #1	Green Color Indication States 0=Normal, 1=Green
		Bit 1		Input #2	
		...		...	
		Bit 15		Input #16	