1WTH_SMnt_RJ45 Comm Details

To get sensor values:

44	(convert temp)
B4	(convert supply volt)
B800	(copy 1st page to scratch pad)
BE00FFFFFFFFF	(read page 0 from scratchpad)
018813 D6 00	(example response)

byte0	01	status byte
byte1	88	lsb of temp
byte2	13	msb of temp
byte3	D6	lsb of supply voltage
byte4	00	msb of supply voltage

Temp = &h1388 = 5000	:	5000 / 256	= 19.53125DegC
Supply voltage (SupV) = &h00D6 = 214	:	214 / 100	= 2.14V

To calculate humidity:

Humidity = (Volt – 0.958) X 32.57 = 38.5%RH

=> Do Temp Compensation if desired:

Relative Humidity (RelH) = Hum / [1.055 - (0.00216* Temp)]
= 38.5 / [1.055 - (0.00216 * 19.53)]
= 38.5 / 1.013
= 38.01%RH