



SHACKNEWS

HIGHVELD AMATEUR RADIO CLUB

DECEMBER 2008



Season's Greetings

COMMUNICATION IS THE NAME OF THE GAME

Meeting The end of year social combined with the SSC was held at the QTH of Berridge & Sandra. Lots and lots to eat.

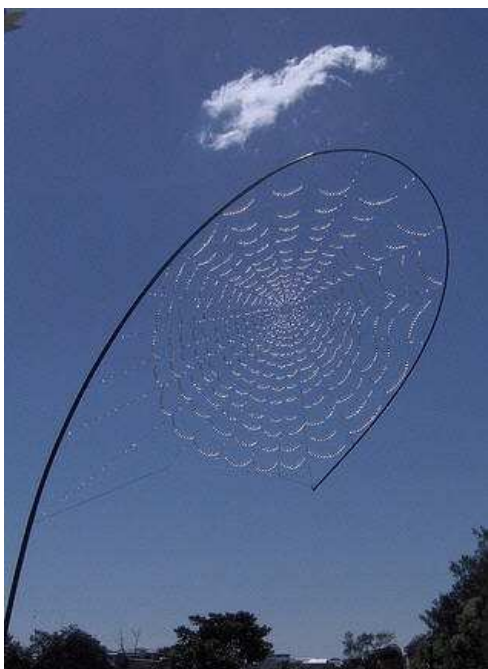
Two rain showers (5mm) put a slight damper on the events but fortunately there were two gazebos to shelter two of the tables. Thanks to all those who brought along extra eaties. Not many leftovers.

The next meeting to be held on 7 February 2009 at the usual venue. Ton will give a talk on repeaters and what makes them work. Also up for discussion will be cross banding 2M and 70cm.

And afterwards ??



A vertical for EME working



Actually a spider web



This is very interesting and a unexpected ending (submitted email)

A few years after I was born, my Dad met a stranger who was new to our small Texas town. From the beginning, Dad was fascinated with this enchanting newcomer and soon invited him to live with our family. The stranger was quickly accepted and was around from then on.

As I grew up, I never questioned his place in my family. In my young mind, he had a special niche. My parents were complementary instructors: Mom taught me good from evil, and Dad taught me to obey. But the stranger...he was our storyteller. He would keep us spellbound for hours on end with Adventures, mysteries and comedies.

If I wanted to know anything about politics, history or science, he always knew the answers about the past, understood the present and even seemed able to predict the future! He took my family to the first major league ball game He made me laugh, and he made me cry. The stranger never stopped talking, but Dad didn't seem to mind.

Sometimes, Mom would get up quietly while the rest of us were shushing each other to listen to what he had to say, and she would go to the kitchen for peace and quiet. (I wonder now if she ever prayed for the stranger to leave)

Dad ruled our household with certain moral convictions, but the stranger never felt obligated to honour them. Profanity, for example, was not allowed in our home... Not from us, our friends or any visitors. Our longtime visitor, however, got away with four-letter words that burned my ears and made my dad squirm and my mother blush. My Dad didn't permit the liberal use of alcohol. But the stranger encouraged us to try it on a regular Basis. He made cigarettes look cool, cigars manly and pipes distinguished. He talked freely (much too freely!) about sex. His comments were sometimes blatant, sometimes suggestive, and generally embarrassing.

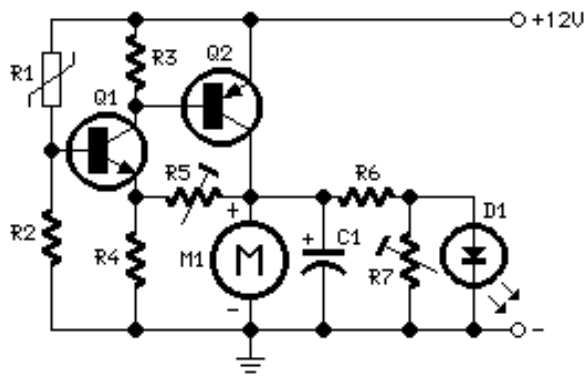
I now know that my early concepts about relationships were influenced strongly by the stranger. Time after time, he opposed the values of my parents, yet he was seldom rebuked... And NEVER asked to leave.

More than fifty years have passed since the stranger moved in with our family. He has blended right in and is not nearly as fascinating as he was at first. Still, if you could walk into my parents' den today, you would still find him sitting over in his corner, waiting for someone to listen to him talk and watch him draw his pictures.

His name?.....We just call him 'TV.'

(How true and a great conversation killer. Ed.)

Temperature-controlled 12V dc Fan



- R1=15K @ 20°C n.t.c. Thermistor (See Notes)
- R2=1K5 1/4W Resistor
- R3=1K 1/4W Resistor
- R4=270R 1/4W Resistor
- R5=22K 1/2W Trimmer Cermet or Carbon
- R6=680R 1/4W Resistor
- R7=470R 1/2W Trimmer Cermet or Carbon
- C1=100µF 25V Electrolytic Capacitor
- D1=LED
- Q1=BC547 45V 100mA NPN Transistor
- Q2=BD140 80V 1.5A PNP Transistor
- M1=Fan Motor 12V 700mA max.

This simple design allows an accurate speed control of 12V dc (fan motors, proportional to temperature. A n.t.c. Thermistor (R1) is used as temperature sensor, driving two directly coupled complementary transistors wired in a dc feedback circuit.

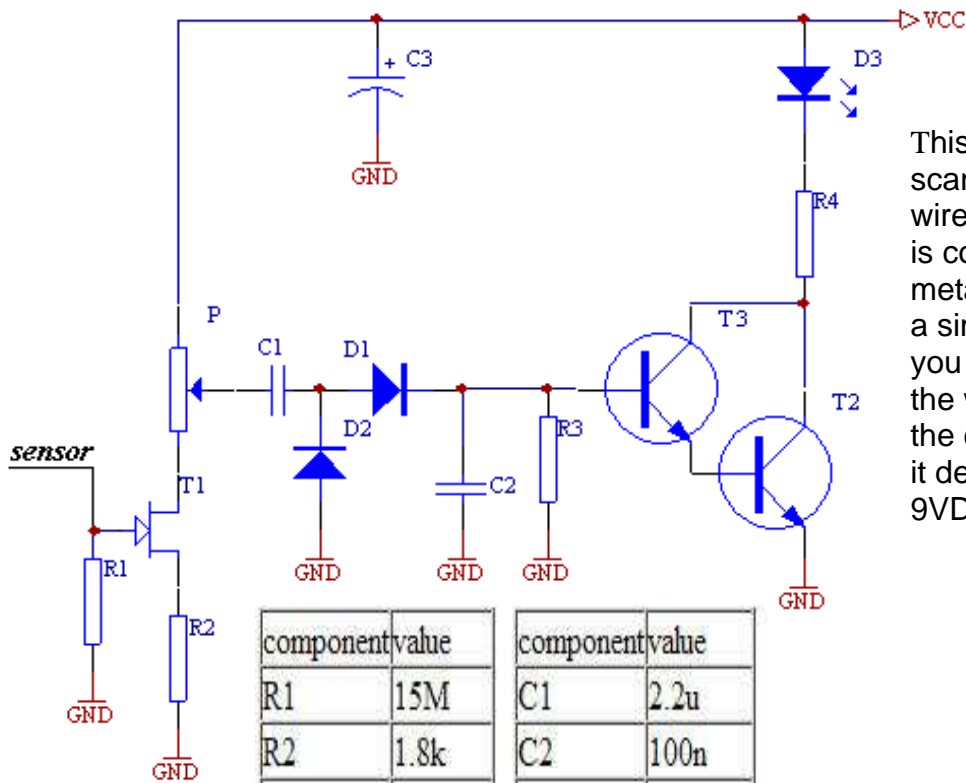
An optional circuitry was added to remotely monitor fan operation and to allow some sort of rough speed indication by means of the increasing brightness of a LED. A computer fan is suitable for this project.

* R5 must be set to allow motor just starting at the desired temperature.

* Any n.t.c. Thermistor in the 6K8 - 22K range value might work, provided R2 value is one-tenth of Thermistor's value.

* R6, R7 and D1 are optional: R7 must be adjusted until the LED glows faintly when the motor is just running.

220V live wire-in-wall scanner



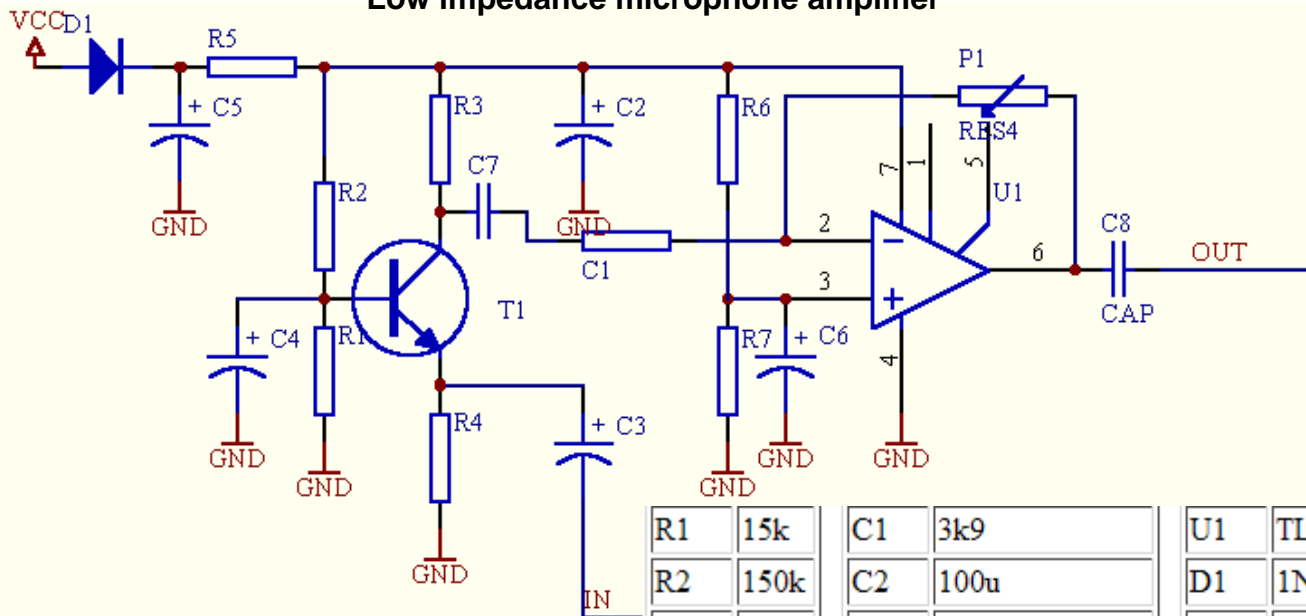
This little circuit will help you to scan the line of a 220V live wire in the wall. The FET gate is connected to a capacitive metal sensor (which is usually a simple metal plate). When you hold the sensor close to the wall, the LED will indicate the current flow around where it detects the wire. Works on 9VDC.

component	value	component	value
R1	15M	C1	2.2u
R2	1.8k	C2	100n
R3	1M	C3	22u
R4	470	T1	BF244
P	10k	T2	BC182B
D1	1N4148	T3	BC182B
D2	1N4148		

How twins are made



Low impedance microphone amplifier



The circuit is a microphone amplifier for use with low impedance (~200 ohm) microphones. It will work with stabilized voltages between 9-30VDC. If you don't build the impedance adapter part with T1, you get a micamp for higher impedance microphones. In this case, you should directly connect the signal to C7.

R1	15k	C1	3k9	U1	TL081
R2	150k	C2	100u	D1	1N4148
R3	2k2	C3	22u	T1	BC109
R4	820	C4	4u7	CN1	SIL6
R5	680	C5	470u		
R6	10k	C6	10u		
R7	10k	C7	100n		
P1	1M	C8	47u UNIPOLAR		

CLUB INFORMATION

Postal address PO Box 19937 Sunward Park 1470

Monthly meeting venue

Website <http://www.qsl.net/zs6hvb/>

e-mail zs6hvb@gmail.com

Repeater 145.1875 MHz input - 145.7875 MHz output

Linked to 70 cm - 438.850 MHz

Witwatersrand Rifles HQ
Cnr Barlow and Cavaleros Str
Industries West
Germiston

Bulletins Sunday morning - 145.7875 MHz & 7062 KHz @ 08h45.
Relay - 80M - 3662KHz

First Saturday of the month at 14:30

Committee

Chairman	Frank van Wensveen	ZS6TMV	082-294-2648
Vice Chairman	Frank Mercier	ZS6MER	011-845-1146
Secretary/Treasurer	Berridge Emmett	ZS6BFL	011-893-1291
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Club bank details

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