



ZS6HVB
Affiliated to the
SARL

SHACKNEWS

HIGHVELD AMATEUR RADIO CLUB

October November December 2014

We're on



COMMUNICATION IS THE NAME OF THE GAME

Season's Greetings



There will be a bring and braai held at the home of Rex, ZS6REX, on Saturday 13 December, 13:00 onwards. This is not an official club event and is open to all radio amateurs.

Rex's QTH is called Cartwheels and is here - 26°20.124S, 27°59.887E

Interesting websites - Weather

<http://www.meteoearth.com/>

<http://oiswww.eumetsat.org/IPPS/html/MSG/PRODUCTS/MPE/SOUTHERNAFRICA/>

<http://www.weatherphotos.co.za/index.html>

<http://www.africaweather.com/>

http://www.yr.no/place/South_Africa/Gauteng/Boksburg/ (Enter a place name to change your area)

Field Strength Meter No1

The device will operate at any frequency up to 250MHz or even higher if necessary. A short whip, rod, telescopic or other aerial picks up radio frequency energy, and rectification by diode D1 provides a positive voltage for the FET gate, across R1. This FET is only operating as a DC amplifier, and the 2N3819 and other general-purpose transistors will be satisfactory.

The "Set Zero" potentiometer may be 1k to 10k. With no RF signal present, it allows gate/source potential to be adjusted so that the meter shows only a small current, which rises in accordance with the strength of

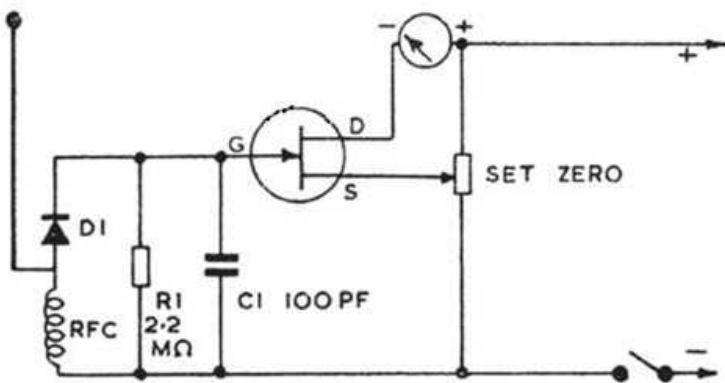
the RF present. For high sensitivity, a 100uA meter can be fitted. Alternatively, a meter of lower sensitivity, such as 25uA, 500uA or 1mA can be used, and will provide enough indication in most circumstances.

Should the field strength meter be wanted for VHF only, a VHF choke can be used, but for general usage over lower frequencies, a short wave choke is necessary. An inductance of about 2.5mH is satisfactory for

1.8MHz and higher frequencies.

The device can be constructed in a small insulated or metal box, with the aerial projecting vertically. In use, it allows tuning up a transmitter final amplifier and aerial circuits, or the adjustment of bias, drive and other factors, to secure maximum radiated output.

The effect of adjustments will be shown by the rise or fall of the reading of the, field strength meter.



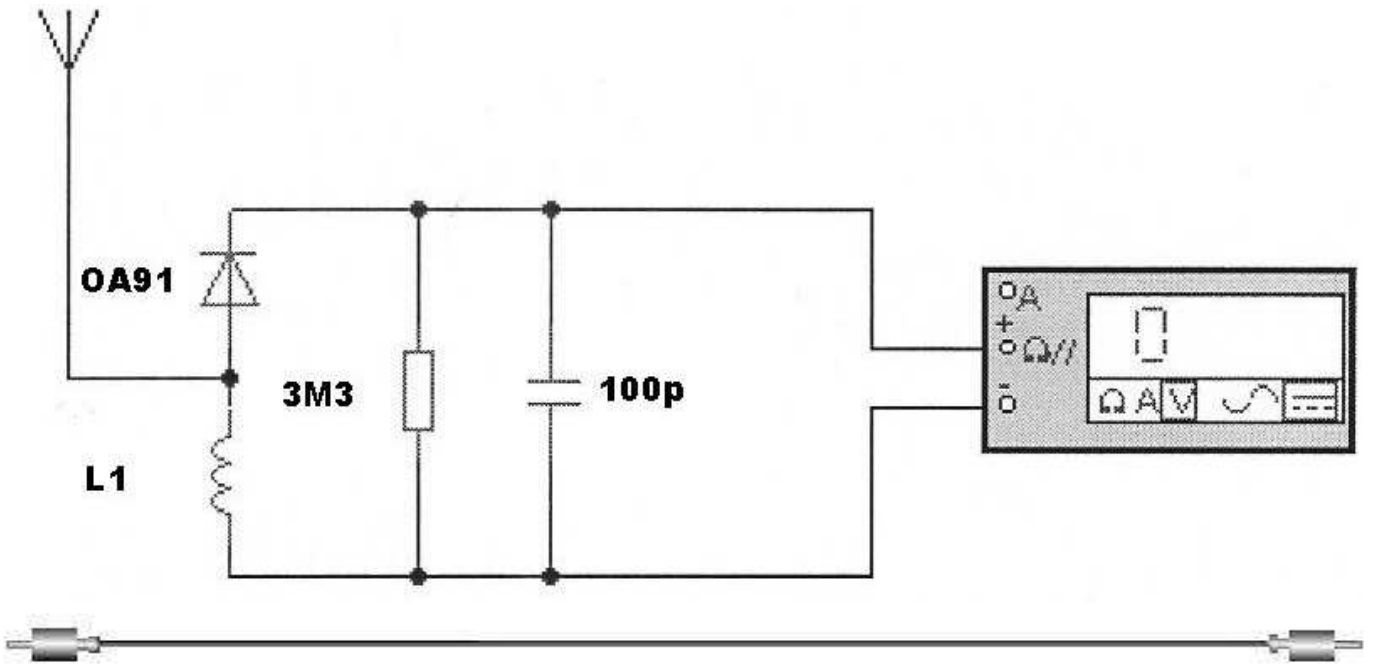
Field Strength Meter No2

This Field Strength Meter is simple and also quite sensitive. It uses an ordinary digital voltmeter to measure signal strength. The VM should be set to the lowest dc volts range for maximum sensitivity. This is normally 200mV DC for most meters.

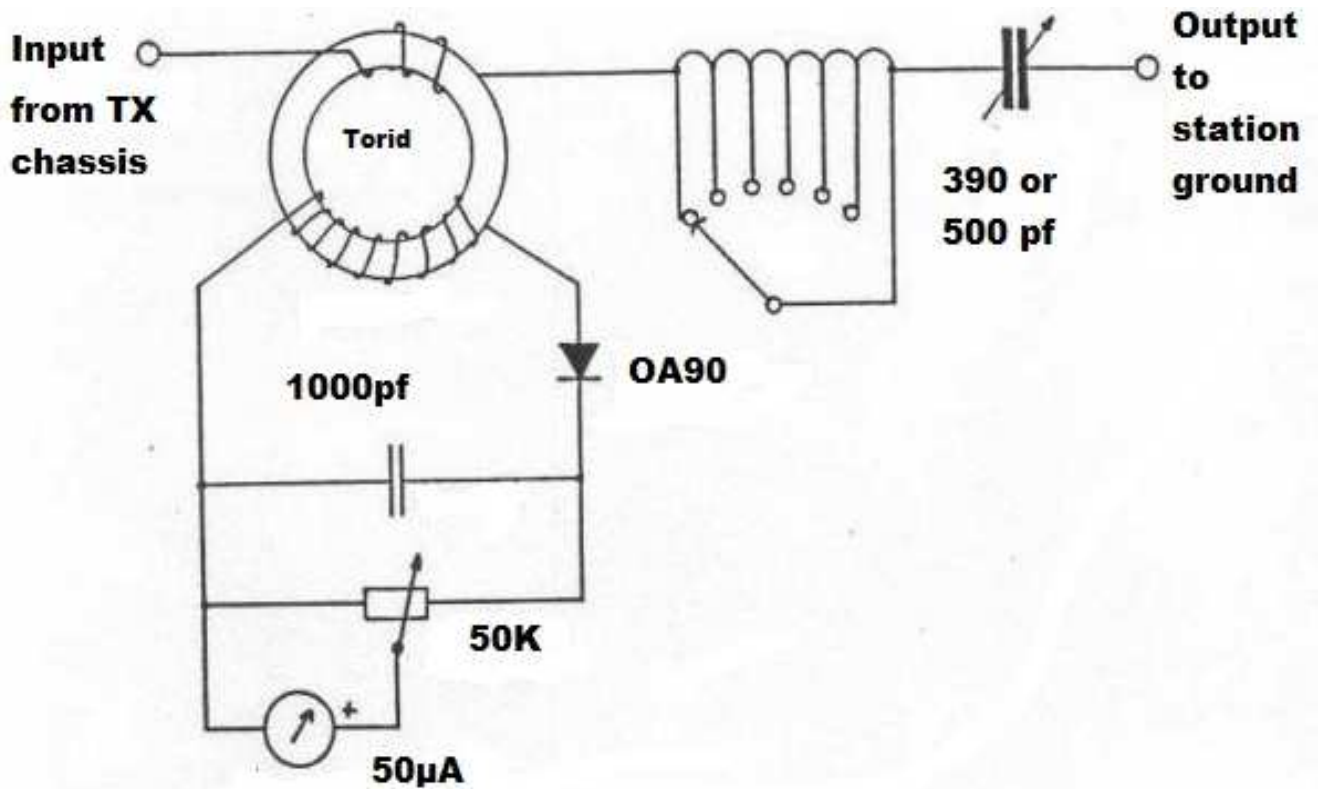
For 2M L1 is 7 turns on a 6mm former with ferrite slug. A digital millimeter, as opposed to an analogue signal meter has several advantages in this circuit.

First, the impedance of a digital meter is very high, around 10M /volt on most meters. This does not shunt the tank circuit unduly. Second, as opposed to an analogue meter, very small differences in signal strength can be observed more easily on the digital meter. Thirdly, used with a digital meter, the FSM will have better linearity, responding well to both weak and stronger signals, a cheap analogue meter may not respond too well to very weak changes in signal strength.

Picture/circuit next page



Tunable earth (no description)



Puns

Dancing cheek-to-cheek is really a form of floor play.
Reading while sunbathing makes you well red.
A bicycle can't stand on its own because it is two tired.
What's the definition of a will? (It's a dead give away.)
Time flies like an arrow. Fruit flies like a banana.
In democracy your vote counts. In feudalism your count votes.
She was engaged to a boyfriend with a wooden leg but broke it off.
A chicken crossing the road is poultry in motion.
If you don't pay your exorcist, you get repossessed
With her marriage, she got a new name and a dress.
The man who fell into an upholstery machine is fully recovered.
You feel stuck with your debt if you can't budge it.
Local Area Network in Australia - the LAN down under.
Every calendar's days are numbered.

Club Information

Postal address PO Box 19937 Sunward Park 1470

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

Back Issues of Shacknews available on the club website

e-mail zs6hvb@zs6hvb.za.net

Repeater 145.1875 MHz input - 145.7875 MHz output

Bulletins Sunday morning - 145.7875 MHz & 7062 KHz @ 08h45.

Monthly meeting venue

Germiston Methodist Church
Room at back of the offices
Lady Duncan Rd
Germiston

3rd Saturday of the month at 14:30

	Chairman	Vacant	Committee	
Secretary/Treasurer	Berridge Emmett	ZS6BFL	011-893-1291	
Shacknews Editor	Berridge Emmett	ZS6BFL	011-893-1291	
Shacknews Printing	Harry Lautenbach	ZS6LT	011-888-5362	

Club bank details

Account closed