Key Features & Benefits

- Available in all popular end connections up to 2 1/8"
- Solid copper extended sweat fittings permit solder installation without disassembly.
- Flare models feature forged brass body and fittings
- Compact design, low silhouette, short laying in length
- Extremely accurate
- Easy viewing
- UL listing File No. SA4744

Sight Glass Moisture Indicator - Dimensions

Model No.	Fitting Size	Fitting Type	Overall Length (mm)	Cut Out Length (mm)
PSG-2	1/4"	SAE Male Flare	87	--
PSG-3	3/8"	SAE Male Flare	91	--
PSG-4	1/2"	SAE Male Flare	97	--
PSG-5	5/8"	SAE Male Flare	103	--
PSG-2MF	1/4"	SAE Male x Female Flare	78	--
PSG-3MF	3/8"	SAE Male x Female Flare	81	--
PSG-4MF	1/2"	SAE Male x Female Flare	86	--
PSG-5MF	5/8"	SAE Male x Female Flare	94	--
PSG-10T	Replacement indicator element and o-ring.			
PSG-2S	1/4"	Sweat	124	107
PSG-3S	3/8"	Sweat	124	105
PSG-4S	1/2"	Sweat	124	98
PSG-5S	5/8"	Sweat	124	92
PSG-7S	7/8"	Sweat	159	120
PSG-9S	1 1/8"	Sweat	159	113
PSG-11S	1 3/8"	Sweat	203	153
PSG-13S	1 5/8"	Sweat	203	147
PSG-17S	2 1/8"	Sweat	203	139

Moisture colour indications in PPM at liquid specific temperatures

System Refrigerant		12	22	134a	401A	401B/C	404A	410A	502	507A
Liquid Line Temperature		25°C	25°C	25°C	25°C	25°C	25°C	25°C	25°C	25°C
System Conditions	Indicator Color									
Dry	Green	below 5	below 30	below 35	below 120	below 50	below 40	below 69	below 10	below 33
Caution	Yellow/Green	5 - 15	30-110	35-120	120-420	50-175	40-140	69-240	10-50	33-115
Wet	Yellow	above 15	above 110	above 120	above 420	above 175	above 140	above 240	above 50	above 115

Immediate steps should be taken to protect the system when moisture indicating element shows "wet".
The best protection system available is a Parker Liquid Filter Dryer and Parker Suction Line Filter Dryer.
The sight-glass moisture indicator should normally be installed between a Parker Liquid Line Filter Dryer and a refrigerant control device

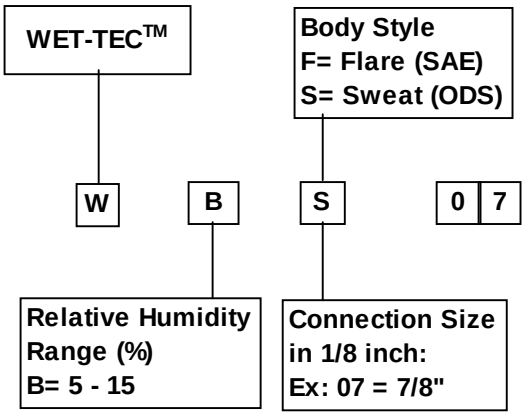
Wet-Tec™ Electronic Moisture Sensor

The Wet-TecTM Moisture Sensor uses an optic-electronic transducer to recognise the colour changes (corresponding with changes in relative humidity) in Parker's industry-proven cobalt bromide paper. The user is provided a low voltage DC signal output, which correlates with wet or dry system.

Key Features & Benefits

- Allows remote monitoring of system moisture levels.
- Low power consumption
- Compatible with all common and alternative refrigerants (Except ammonia)
- Universal mounting
- Long Life
- Input voltage - 12 or 24VDC, 0.03A Max
- Output voltage - 2-5VDC
- UL listed for 35 bar SWP
- Available in SAE flare connections upto 5/8"
- Available in ODS sweat connections up to 2 1/8

Nomenclature



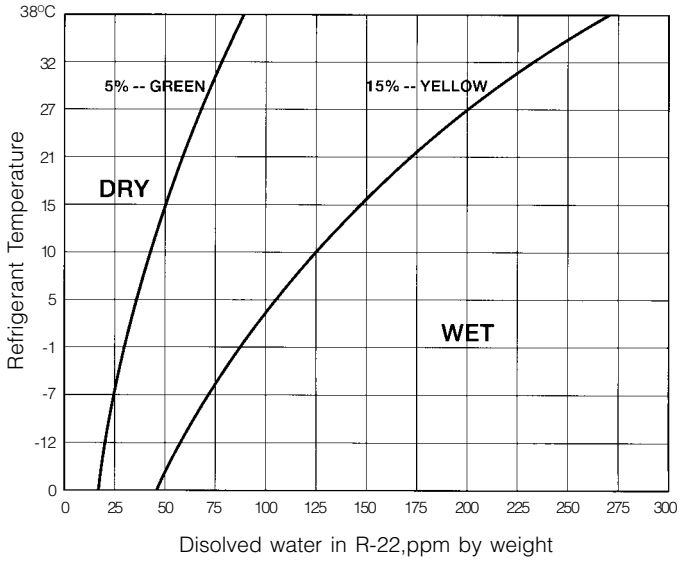
Principles of Operation

How It Works

The Wet-TecTM Moisture Sensor uses a 12 or 24VDC input signal to interpret the colour of the cobalt bromide paper, which changes according to the system's moisture level. An output signal of 24VDC correlates to a "dry" system, while an output signal of 5VDC means a "wet" or unsafe system condition.

Recommended Use

This device is intended to distinguish between acceptable and unacceptable humidity. Relative humidity is a function of refrigerant temperature and PPM of dissolved water as shown in Figure 1. Therefore, in order to make a PPM comparison to the DRY/WET output signal of the Wet-Tec Moisture Sensor, the refrigerant temperature must be considered.

Temperature Compensation

Since the Wet-Tec is a refrigerant relative humidity sensor, it is directly dependent upon the temperature of the refrigerant that passes through it. The Wet-Tec is most effective when used in a refrigerant temperature that remains relatively constant, such as a liquid refrigerant exiting a mechanical subcooler.