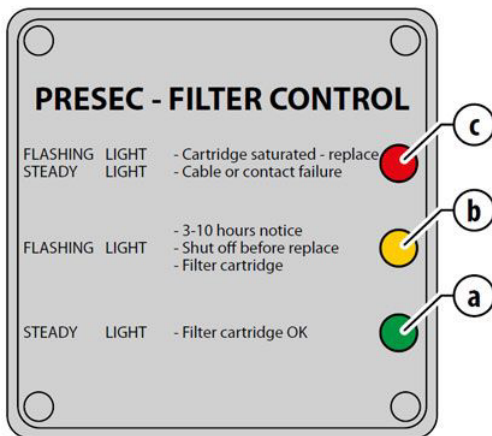The PRESEC wired sensor connects to the compressor's final filter tower. Based on electrical connectivity, the system provides visual indicators of the filter element's (cartridge) moisture level.

The PRESEC can be added to any high-pressure compressor package using the Coltri Hyperfilter with installed PRESEC sensor.

The PRESEC three LED display indicates multiple levels of filter element saturation* and system status:

- Steady Green Light (a): System is operational; cartridge OK
- Flashing Yellow Light (b): Pre-alarm. Element is near its service life and will need replacement soon.
- Flashing Red Light (c): Alarm. Element is exhausted and must be replaced immediately.
- Steady Red Light (c): Alarm. The filter element is missing, or the filtering system is interrupted due to contact or cable failure. Compressor turns off and cannot be turned on again without inserting a new element and/or determining the source of the alarm.
- While the yellow light pulses (b), the steady green light (a) will illuminate because the filter element is not completely saturated.
- If no LEDs illuminate, the PRESEC is not powered.

PRESEC SENSOR

PRESEC SYSTEM
CODE SC000550

PRESEC - FILTER CONTROL

FLASHING	LIGHT	- Cartridge saturated - replace	c
STEADY	LIGHT	- Cable or contact failure	
FLASHING	LIGHT	- 3-10 hours notice - Shut off before replace - Filter cartridge	b
STEADY	LIGHT	- Filter cartridge OK	a

SATURATION FILTER VALUES – VALORES DE SATURACIÓN FILTRO		
Light Luz	Humidity Humedad	Volt
	(Mg/m³)	(V)
Green Verde	15 - 20	1,5 - 1,8
Yellow Amarillo	20 - 25	1,81 - 8,8
Red Rojo	> 25	> 8,8

* Filter "saturation" occurs when a filter element can no longer absorb sufficient water vapor to produce air/gas that complies with recognized air/gas standards. The PRESEC indicator changes to flashing red at 25 mg/m³, which is the maximum allowable high-pressure breathing air water vapor content per European Breathing Air Standard EN12021:2014 for compressors charging high-pressure cylinders greater than 200 bar (2900 psi).