SENSING LABS developed with SCP

OUTDOOR DC LATCH SOLENOID DRIVER

SMART IRRIGATION

SOLENOID

SENLAB™ V IS A DC LATCH SOLENOID DRIVER WITH A LORAWAN™ COMMUNICATION INTERFACE. IT IS DESIGNED FOR 9-12V DC LATCH SOLENOIDS.

Ref : SVC-LAB-13NS

MADE IN FRANCE

LoRaWAN CERTIFIED™

+ 20 years

15 km *

IP66 (Outdoor use)

Local or Public Network compliant

* Depending on the operating conditions

Senlab™ V allows to control either a single 2-wires DC latch solenoid, or a single 3-wires DC latch solenoid, or two 2-wires DC latch solenoid. It is able to check the good execution of orders through dry contact interfaces (one per solenoid) and count pulses from a single water meter.

This Senlab offers best in class features as :

- **Battery Life time**
- **Rich Data Content**
- **Radio Performances**
- **Advanced set of functionalities (see on verso)**

TYPICAL APPLICATIONS

SMART IRRIGATION

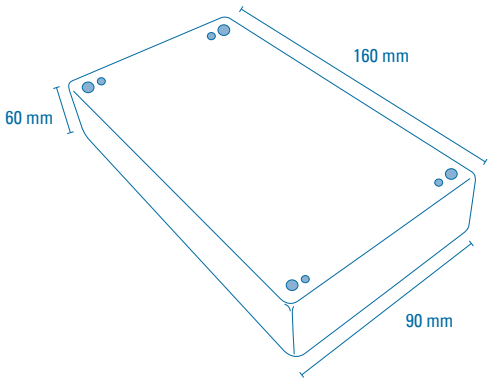
- Drive your hydraulic equipment
- Control the solenoid valve remotely
- Configure valve open cycle (periodic pattern mode)
- Notification of each open/close switch of valve

TECHNICAL SPECIFICATIONS

Physical specifications	Dimensions	102 x 56 x 35 mm
	Weight	458 gr
	Operating temperature	-20°C to +55°C
RF specifications	RF sensitivity	-137dBm
	RF power	+14dBm (25mW)
	Radio band	868 MHz
EC Conformity : Compliant with Directive 2014/53/UE (RED)	EMC	Final draft EN 301 489-3 v2.1.1 Draft EN 301 489-1 v2.2.0
	Radio	EN 300 220-2 v3.1.1
	Magnetic field exposure	EN 62479
	Safety	IEC 60950-1, EN 60950-22

SENSING LABS developed with SCP

DIMENSIONAL DRAWING



TECHNICAL FEATURES FOCUS

Driving capabilities

- Orders for opening or closing the valves can be sent directly by downlink messages
- The local maintenance interface also allows requesting some orders through the Senlab V UHF link
- Periodic valve open/close patterns can be configured by downlink messages

Installation & configurability

- Senlab V periodically logs and transmits :
  - The state of dry contact inputs (reports on valves states)
  - The index of the water meter connected to the pulse input
  - The last order executed on each of its drive outputs
- From start, transmission happens every 5 mn for installation convenience
- In operational mode, this transmission period can be configured up to one hour per 5 mn steps
- Senlab V can also transmit a specific event frame for each or the last order executed on each of its drive outputs

BATTERY LIFE DURATION ESTIMATION

A single Valve managed - 10 open/close cycle per day

Battery life (years)	Tx every 5mn	Tx every 15mn	Tx once an hour
SF7	>20	>20	>20
SF8	>20	>20	>20
SF9	>20	>20	>20
SF10	16,4	>20	>20
SF11	10,3	19,4	>20
SF12	6,0	12,6	>20

Given only as preliminary information.

www.sensing-labs.com

T : +33 (0)4 67 47 55 67
contact@sensing-labs.com

Sensing Labs - 187 rue Hélène Boucher
34170 Castelnau-le-Lez