I. Introduction

SenSpot™ displacement meter can be used for measurement the progress of the existing cracks in a structure. This device has a sliding element which moves with displacement of structure or growth of a crack.

II. Configuration of the SenSpot™

SenSpot™ needs be configured properly by Air Update before using it in remote mode. Usually, the SenSpot™ are air-updated by Resensys before shipping to customer so nothing is required to be done by user. However, if the sensor network needs to be reconfigured after shipping (e.g. some repeaters are needed due to poor RF link between SeniMax™ and SenSpot™), Air Update will be needed. Please refer to SenScope™ User Manual for step by step instruction about how to Air Update the SenSpot™. Please make sure that the manual is read thoroughly because incorrect Air Update settings cause improper operation and data loss.

III. Installation

A. Before Installation

- **Choose the mounting spot**

The sensing element should be installed over the crack or on the moving structure that needs to be monitored. Since the sensing element and the wireless transmitter are weather-proof (IP65 protection), any position with enough wireless signal strength is suitable for mounting.

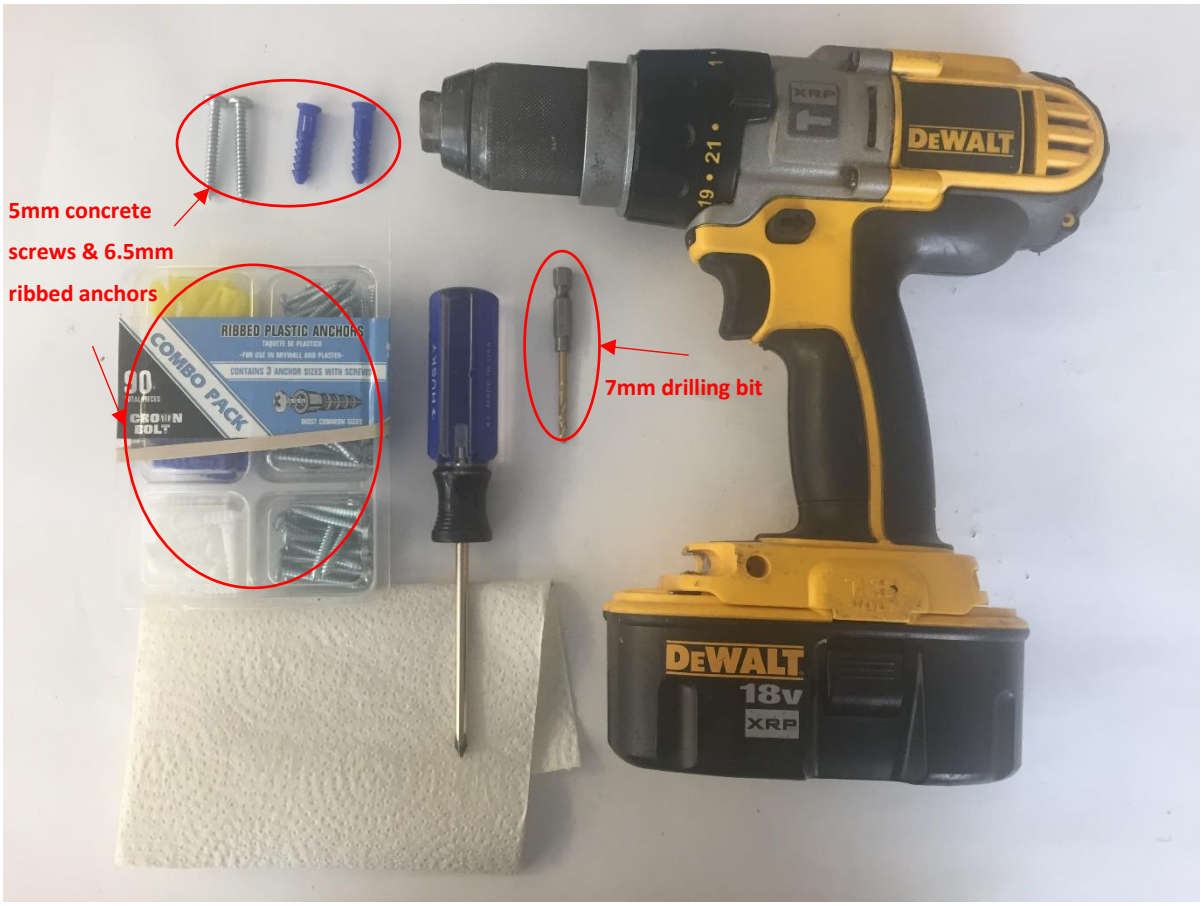
- **Necessary items**

1. Hand drill;
2. For the transceiver:
   6mm (15/64”) drill bit
   6mm diameter ribbed/masonry anchor;
   4mm concrete screw;
3. For the sensing element:
   7mm (17/64”) drill bit;

6.5mm diameter ribbed/masonry anchor;
5mm concrete screw;

4. Screw driver

5. Wipe



B. Installation steps

Choose the mounting spot for the sensing element.	
Mark the position of the holes according to the sensing element's flange.	
Drill the holes with the 7mm (17/64") drill bit for the ribbed anchor.	
Clean the holes to remove debris and dust	
Insert the anchors (6.5mm) and fasten the screws (5mm) through the flange of the transceiver	

Mark the position of the holes according to the transceiver's flange.	
Drill the holes with the 6mm drill bit for the ribbed anchor.	
Clean the holes to remove debris and dust	
Insert the anchors (6mm) and fasten the screws (4mm) through the flange of the transceiver	
The SenSpot™ Wireless Displacement has been successfully installed.	