

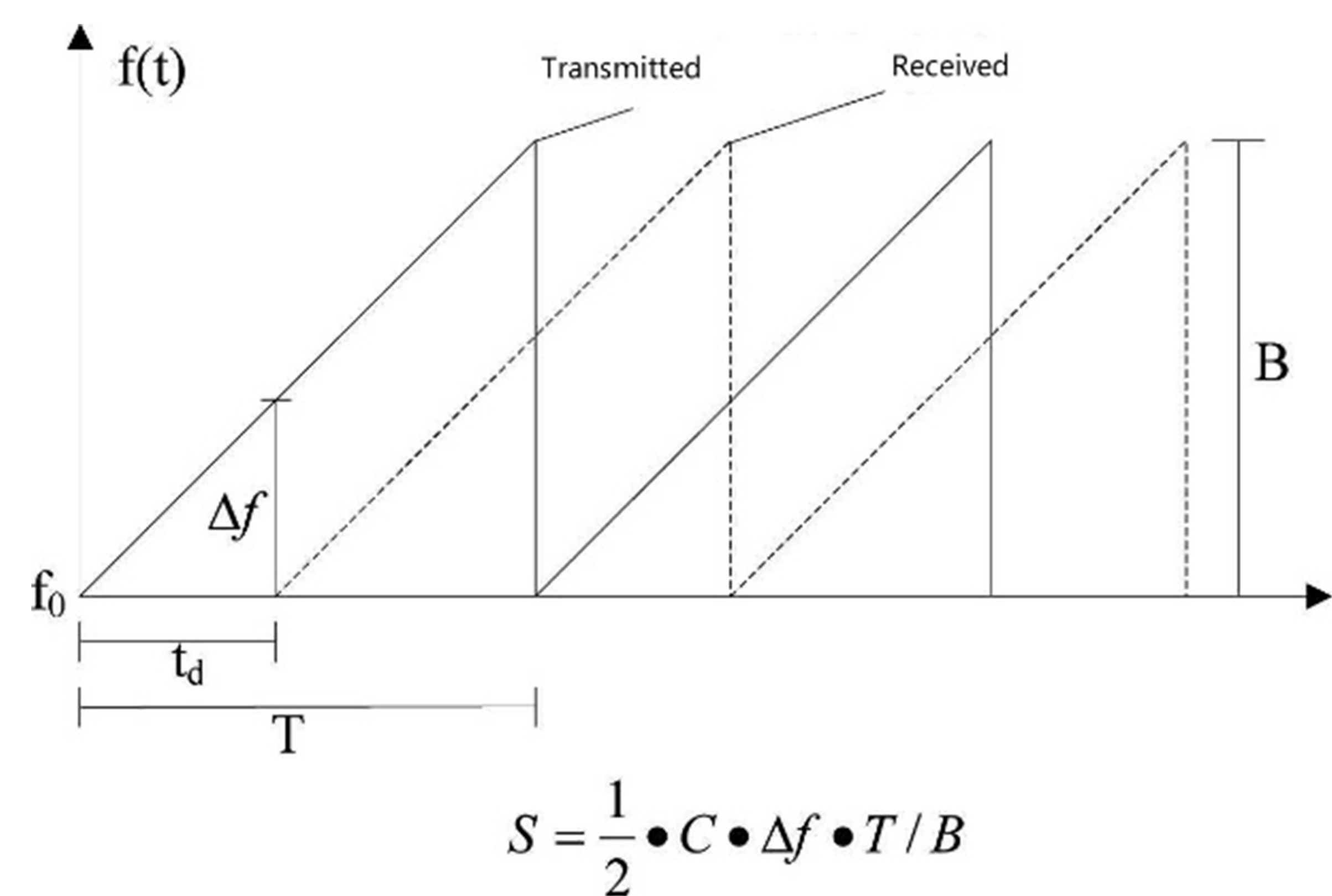


Company Profile

Since found in 1996, DFMC has always dedicated to industrial online measuring instrument and process control system. To overcome the challenge of level measurement in harsh environment, DFMC speically designed and developed DF-RLS for cement plants. With robust hardware and intelligent algorithm, DF-RLS can get accurate level result even in clinker silos and cement silos. We are the professional manufacturer of online instrument. We know process better.

Measuring Principle

FMCW (Frequency Modulated Continuous Wave) technology is adopted by DF-RLS radar level sensor. It works like this: microwave signals with continuous linear changes are sent toward the medium through antenna, the material surface reflects signal waves, which are then received by the antenna. There is frequency difference between transmitting and receiving the signals, DF-RLS calculates this difference and tells the level.



Area of Application

DF-RLS Radar Level Sensor is specially designed for non-contact level measurement in cement industry. It measures raw materials, additives, clinkers and cement products even under extreme environment such as heavy dust or high temperature, which are very common in cement plant. The robust design and featured functions enable DF-RLS radar level sensor gives stable and reliable measurement results.

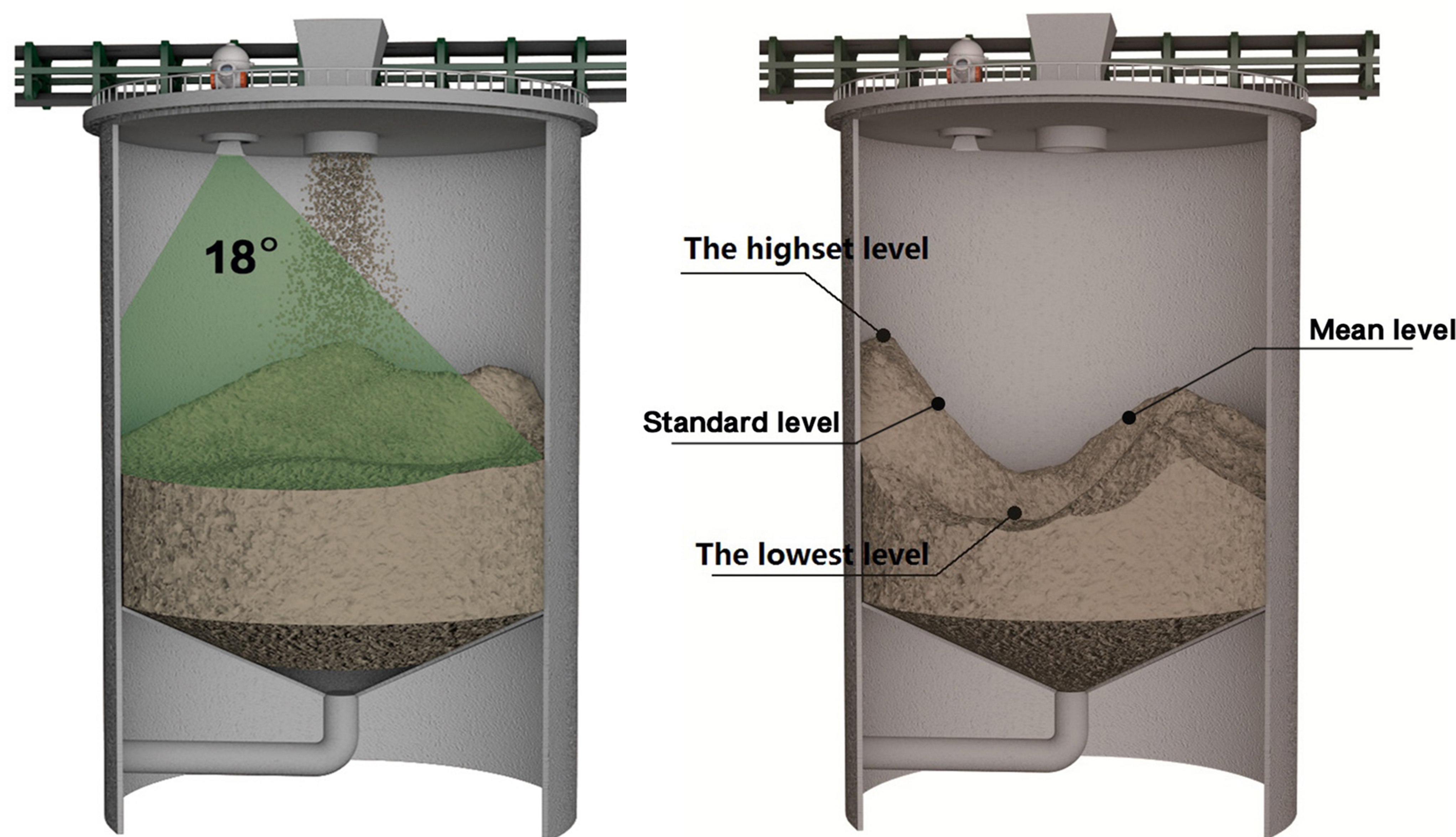


DF-RLS

"...the application of large beam angle detection technology effectively improves the overall representativeness of the material surface measurement data, the test result is more accurate, practical and useful."

Features

- X-band possesses penetrability as well as anti-interference ability.
- 18 large beam angle covers large measurement area, avoid blind zone.
- Unique anti-feeding interference algorithm ensures more accurate measurement.
- Multiple measuring modes enables different application requirements



Specifications

Application	Bulk solids for average to very large vessels
Range	Up to 150m
Process temperature	-40 C to +200 C
Power supply	220V AC, 50/60Hz, 10W; 24V DC, 8W
Frequency range	X-band, 10GHz
Beam angle	18
Accuracy	±5mm
Repeatability	0.5mm
Resolution	0.3mm
Max. change rate	12m/min
Signal output	4~20mA
Weight	Around 13.6kg
Protection level	IP65