

Future-Proof Access Control: Stylish, Secure, and Seamless



Acre Secure-Touch is a sleek, design-focused multi-technology reader family tailored for physical access applications. One of the flattest readers available, it seamlessly supports modern interfaces and protocols such as OSDP and Wiegand. Crafted from premium materials, its IP65-rated housing not only ensures durability but also delivers a sophisticated and distinctive appearance.

The acre Secure-Touch supports a broad range of HF and LF contactless technologies.

Key Features

- ✓ Appealing flat design with premium look and feel, different colors for perfect architectural integration
- ✓ Easy installation with in-wall flush-mount boxes or on-wall mounting frame
- ✓ Water and dust protected, IP65 potted housing
- ✓ Interfaces: OSDP protocol or Wiegand
- ✓ Backlit keypad
- ✓ Proximity sensor, ambient light sensor, tamper switch
- ✓ Mobile App for basic device parameter configuration

TECHNICAL INFORMATION

	AQ40 / AQ50	AQ30 / AQ35
FREQUENCIES	125 kHz (LF) / 13.56 MHz (HF)	
ANTENNAS	Integrated	
HOUSING	Metal frame and glass front, potted housing; Available in 2 colors (white or black)	
DIMENSIONS (L X W X H)		
• Reader frame only (mounted):	~ 3.38" x 3.38" x 0.33" (86.00 x 86.00 x 8.25mm)	~ 4.84" x 1.65" x 0.32" (123.00 x 42.00 x 8.25 mm)
• Rear connector height:	~ 0.31" (8.00 mm)	~ 0.31" (8.00 mm)
• Reader with rear connector:	~ 3.38" x 3.38" x 0.62" (86.00 x 86.00 x 15.90mm)	~ 4.84" x 1.65" x 0.62" (123.00 x 42.00 x 15.90 mm)
• Optional mounting frame:	~ 3.38" x 3.38" x 0.38" (86.00 x 86.00 x 9.75mm)	~ 4.84" x 1.65" x 0.39" (123.00 x 42.00 x 9.85 mm)
POWER	Connector X1: 6.0 V – 28 V (10.0 V – 28 V for installations in a UL-certified environment) PS2 classified power source according to IEC 62368-1	
	short-circuit current < 8 A	short-circuit current < 3.5 A
CURRENT CONSUMPTION	Max. 300 mA @ 6.0 V	
TEMPERATURE RANGE	Operating: -20°C up to +60°C (-4°F up to +140°F) Storage: -20°C up to +70°C (-4°F up to +158°F)	

TECHNICAL INFORMATION		
	AQ40 / AQ50	AQ30 / AQ35
RELATIVE HUMIDITY	Mounted front: IP65 protected housing Transport/Storage: 5% to 95% non-condensing	
READ / WRITE DISTANCE	LF and HF: up to 3.15" (80mm), depending on environment and transponder	
WEIGHT	Reader, potted, with connectors and mounting plate	
	approx. 113 g / 3.99 oz	approx. 87.50 g / 3.09 oz
SABOTAGE DETECTION	Tamper switch	
WIRE CONNECTORS	X1, 4-pin: RS-485 and power supply X2: 6-pin: Wiegand X1, X2: Plug-in connection terminal blocks, screw fastening of wires for wires 0.2 to 1.0 mm ² (for installation in a UL-certified environment, the minimum permissible wire size to be used shall not be less than 26 AWG (0.13 mm ²)) X3: 4-pin USB connector: 1.25 mm pitch, for maintenance and configuration purposes only	
SIGNALING	2 LED areas: upper left RGB, upper right white; LEDs dimmable LED brightness controllable via proximity and ambient light sensors	
KEYPAD	Backlit keypad with touch function (0 to 9, * and #) White LEDs, individually dimmable, LED brightness controllable via proximity and ambient light sensors	
OS SUPPORT	Windows 7 (32-/64-bit) and higher, Linux, Android ¹⁾ , iOS ¹⁾ , MAC OS X ¹⁾	
PERIPHERAL INTERFACES	RS-485, output 5V Wiegand (D0/D1) with up to three additional input lines (IN1, IN2, IN3)	
PROTOCOLS	OSDP v2.2	
TRANSMISSION SPEED	HF Air: up to 848 kbit/s, Host RS-485: up to 38,400 baud	
CERTIFICATION NAME	Secustos SQ80 K LEGIC	Secustos MU20 LEGIC
CERTIFICATIONS	Non-exhaustive list ²⁾ : CE/RED, FCC, IC, UL listed, REACH and RoHS-III compliant	

¹⁾On request ²⁾The product has been certified for use in many countries and regions. Contact your Sales representative for detailed information about all certifications and approvals granted to the product.

SUPPORTED TRANSPONDERS	
SUPPORTED TRANSPONDERS (STANDARD) 13.56 MHZ	ISO14443A: LEGIC Advant (UID only), NTAG2xx, MIFARE Classic ²⁾ , MIFARE Classic EV1, MIFARE DESFire EV1, MIFARE DESFire EV2, MIFARE DESFire EV3, MIFARE DESFire Light, MIFARE Mini, MIFARE Plus S/X, MIFARE Smart MX, MIFARE Ultralight, MIFARE Ultralight C, MIFARE Ultralight EV1, SLE44R35, SLE66Rxx (my-d move)
SUPPORTED TRANSPONDERS (STANDARD) 125 KHZ	EM4100, EM4102, EM4200

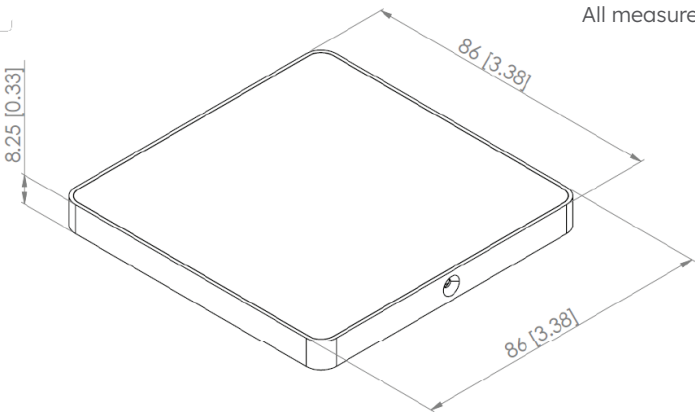
¹⁾ Not available in countries/regions subject to FCC or IC approval.

²⁾ Only available in countries/regions subject to FCC or IC approval.

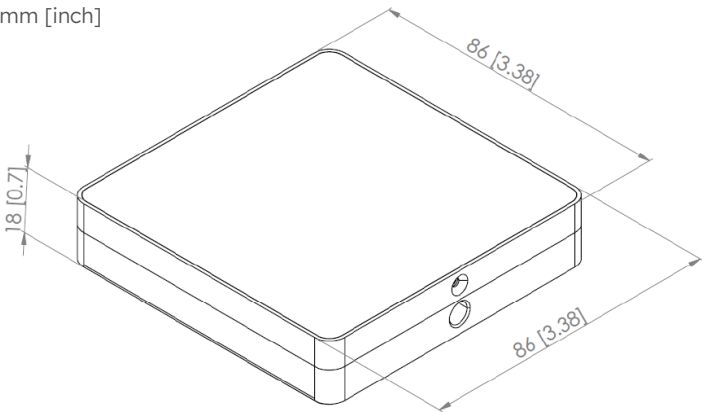
ACCESSORIES	
SECO APP	sesamsec Seco App, available in Google Play for Android NFC devices

TECHNICAL DRAWINGS

Secure-Touch AQ40 / AQ50

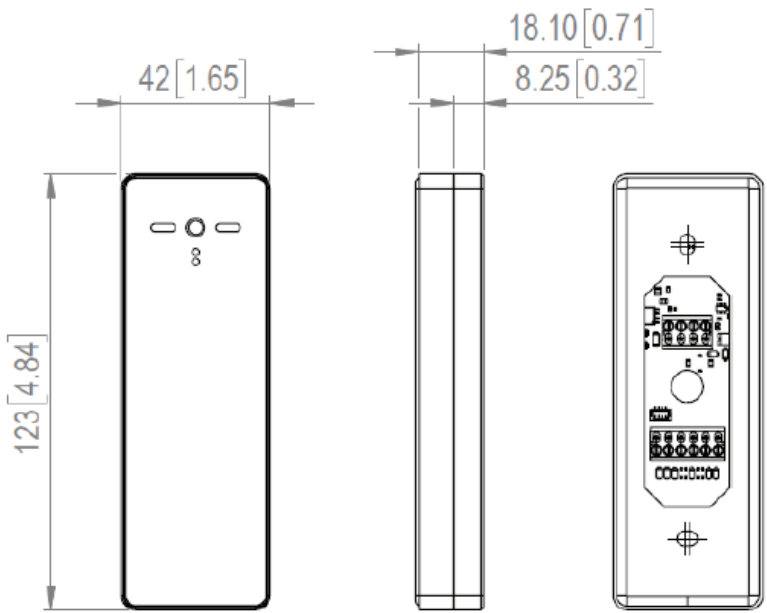


reader without mounting frame front view

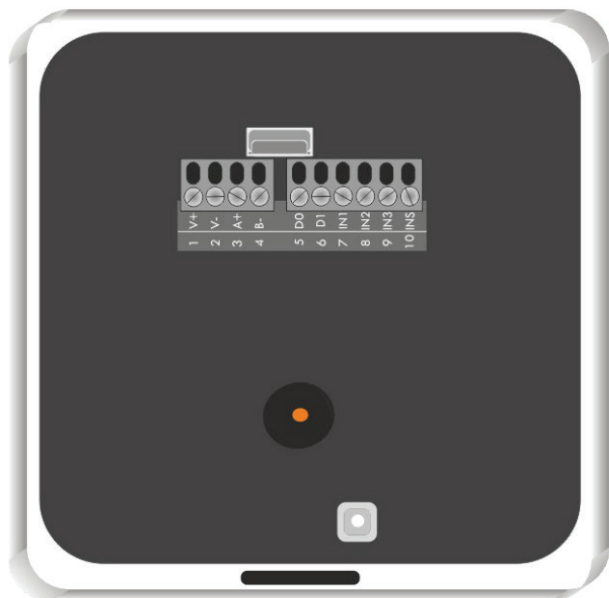


reader with mounting frame front view

Secure-Touch AQ30 / AQ35



CONNECTOR ASSIGNMENT



AQ40 / AQ50



AQ30 / AQ35

POWER SUPPLY

V+	Input voltage 6 – 28 V ¹⁾
V-	Ground

DATA TRANSFER¹⁾

A+	RS-485, cable length: max. 1000 m
B-	RS-485, cable length: max. 1000 m
D0	Wiegand D0, cable length: max 150 m
D1	Wiegand D1, cable length: max 150 m
IN1	Digital input 1, cable length: max 200 m
IN2	Digital input 2, cable length: max 200 m
IN3	Digital input 3, cable length: max 200 m
INS	Digital input S (for external Sabotage switch), optional if sabotage button is not available on the reader, cable length: max 200 m

Cable routing requirements: twisted pair cabling (D0/GND, D1/GND). Refer to the acre SecureTouch manual for detailed information about cabling and dimensions.

PART NUMBER	DESCRIPTION
AQ30	
AQ-MOB-1030	AQ30 Black OSDP Mullion Reader
AQ-MOS-1030	AQ30 White OSDP Mullion Reader
AQ-MWS-1030	AQ30 White Wiegand Mullion Reader
AQ-MWB-1030	AQ30 Black Wiegand Mullion Reader

AQ35	
AQ-MWB-1035	AQ35 Black Wiegand Mullion Reader w/Keypad
AQ-MWS-1035	AQ35 White Wiegand Mullion Reader w/Keypad
AQ-MOB-1035	AQ35 Black OSDP Mullion Reader w/Keypad
AQ-MOS-1035	AQ35 White OSDP Mullion Reader w/Keypad

AQ40	
AQ-SOB-1040	AQ40 Black OSDP Square Reader
AQ-SOS-1040	AQ40 White OSDP Square Reader
AQ-SWS-1040	AQ40 White Wiegand Square Reader
AQ-SWB-1040	AQ40 Black Wiegand Square Reader

AQ50	
AQ-SWB-1050	AQ50 Black Wiegand Square Reader w/Keypad
AQ-SWS-1050	AQ50 White Wiegand Square Reader w/Keypad
AQ-SOB-1050	AQ50 Black OSDP Square Reader w/Keypad
AQ-SOS-1050	AQ50 White OSDP Square Reader w/Keypad

