KEYPAD_module

API DESIGN TABLE

FUNCTION NAME	KEYPAD_init				
ARGUMENTS	INPUT	Name Type	KEYPAD_config Ptr to KEYPAD_initTypeDef		
		Description	Selects KEYPAD pins, number of rows and number of columns		
	OUTPUT	NONE			
INPUT/OUTPUT NO		NONE	NONE		
RETURN	E_OK	0			
DESCRIPTION	Initialize the keypad pins and size				

FUNCTION NAME	KEYPAD_getPressedKey			
ARGUMENTS	INPUT	NONE		
	OUTPUT	Name KEYPAD_keyNumber		
		Туре	U16	
		Description	Returns the pressed key	
			number	
	INPUT/OUTPUT	NONE		
RETURN	E_OK 0			
	E_NOK :	1		
DESCRIPTION	This function is called periodically every 30-50 millisecond to check if there is any button pressed in the keypad.			

Data type table

Name		KEYPAD_initTypeDef		
Туре	Structure			
Elements		Name	KEYPAD_rows	
		Туре	U8	
		Description	The number of rows in the	
	_		keypad	
		Name	KEYPAD_cols	
		Туре	Array of LCD_portPin	
		Description	The number of columns in	
			the keypad	
		Name	KEYPAD_pins	
		Туре	Array of KEYPAD_portPin	
		Description	Selects the connected pins	
			to KEYPAD. The number of	
			elements is equal to cols *	
			rows	
Description	Configuration			

Name	KEYPAD_portPin			
Туре	Structure			
Elements	Name KEYPAD_PIN			
	Type DIO_pinTypeDef			
	Description SPECIFIES THE GPIO			
	PIN TO BE			
	CONFIGURED			
	Name KEYPAD_PORT			
	Type DIO_portTypeDef			
	Description Select if the pin is			
	output or input			
Description	Selects a specified pin for the keypad			