**Listing 1. Program dla środowiska Arduino ilustrujący użycie modułu**

/\* I2C\_FAN\_Test LTC1695/AD7415

Temperature speed control \*/

#include <Wire.h>

#define LTC1695\_Adr B1110100 // Base Address LTC1965 fan driver

#define AD7415\_Adr B1001001 // Base Address AD7415 thermometer

uint8\_t Speed\_Val **=** 0**;**

void setup**()**

**{**

Wire**.**begin**();**

Serial**.**begin**(**9600**);**

**}**

//LTC1965 speed set

void LTC1695\_Speed**()**

**{**

Wire**.**beginTransmission**(**LTC1695\_Adr**);**

Speed\_Val **=** Speed\_Val **&** B00111111**;**

Wire**.**write**(**Speed\_Val**);**

Wire**.**endTransmission**();**

delay**(**10**);**

**}**

//AD7415 temp read

void AD7415\_Read**()**

**{**

uint8\_t result\_H **=** 0**,** result\_L **=** 0**;**

Wire**.**beginTransmission**(**AD7415\_Adr**);**

Wire**.**write**(**B00000001**);** //config reg

Wire**.**write**(**B01000000**);** //cont conv

Wire**.**endTransmission**();**

delay**(**10**);**

Wire**.**beginTransmission**(**AD7415\_Adr**);**

Wire**.**write**(**B00000000**);** //temreg set

Wire**.**endTransmission**();**

delay**(**10**);**

Wire**.**beginTransmission**(**AD7415\_Adr**);**

Wire**.**requestFrom**(**AD7415\_Adr**,** 2**);** // request 2 bytes from slave device AD7415\_Adr

**while** **(**Wire**.**available**())**

**{**

result\_H **=** Wire**.**read**();** // HIGH\_T

result\_L **=** Wire**.**read**();** // LOW\_T

**}**

Wire**.**endTransmission**();**

Speed\_Val **=** result\_H**;**

**}**

void loop**()**

**{**

AD7415\_Read**();**

Serial**.**print**(**"Temp: "**);**

Serial**.**println**(**Speed\_Val**,** DEC**);**

delay**(**1000**);**

LT C1695\_Speed**();**

**}**